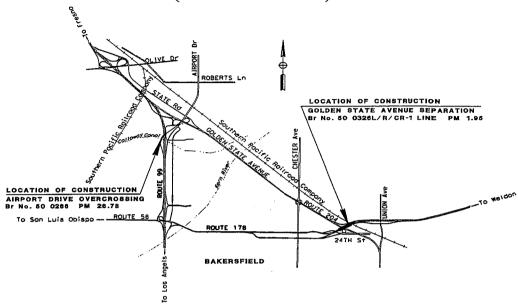
PROJECT SCOPE SUMMARY REPORT (Seismic Retrofit)



On Route 99 and 178 in Kern County

in Bakersfield at Airport Drive Overcrossing

and at Golden State Avenue Separation

I have reviewed the right of way information contained in this Project Scope Summary
Report-Seismic Retrofit, and the R/W Data Sheet attached hereto, and find the data to be
complete, current, and accurate:
IN Raymoute
SPIROS KARIMBAKAS /
DEPUTY DISTRICT DIRECTOR - (RIGHT OF WAY

APPROVAL RECOMMENDED:

APPROVAL RECOMMENDED:

JUDY AGUILAR PŘÓJECT MANAGER

SAM KATICH SEISMIC RETROFIT COORDINAȚOR

APPROVED:

SHARRI BENDER EHLERT

INTERIM DISTRICT 6 DIRECTOR

DATE

PROJECT SCOPE & TECHNICAL DATA ARE VALID THROUGH: COST & WORK PLAN MUST BE UPDATED PRIOR TO USE FOR PROGRAMMING.

This Project Scope Summary Report-Seismic Retrofit has been prepared under the direction of the following registered civil engineer. The registered civil engineer attests to the technical information contained herein and the engineering data upon which recommendations, conclusions, and decisions are based.

> RANJIT K MONDAL REGISTERED CIVIL ENGINEER

10 24 2011



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1. INTRODUCTION

The project was initiated for seismic restoration on State Route 99 at Airport Drive Overcrossing and on State Route 178 at Golden State Avenue Separation. The conceptual report and Structure Replacement and Improvement Needs (STRAIN) report identified deficiencies of the four bridges in this project. The project is located in Kern County on State Route 99 at PM 26.78 Br No. 50 0266 - Airport Drive Overcrossing and on State Route 178 at PM R1.95 Br No. 50 0326L/R/CR-1 Line – Golden State Avenue Separation. The Br No. 50 0266 was built in 1963 and Br No. 50 0326L/R/CR-1 Line were built in 1967. The project will eliminate the deficiencies and provide safety against seismic event by retrofitting the bridges to conform to current standard. The estimated construction capital cost of the project is \$6,120,000 and the escalated Right of Way capital cost is \$45,000. The project is proposed to be funded from District Major Capital Outlay Fund, Seismic Restoration Program (201.113), in the 2015/2016 fiscal year.

2 RECOMMENDATION

It is recommended that the project be approved for programming in the 2012 SHOPP for Bridge Seismic Restoration Program 201.113 with funding in the 2015/2016 fiscal year. A Supplemental PSSR would be prepared for project approval. The programming performance indicator for this project is 4 bridges restored.

3. LOCATION AND PROBLEM

Location:

Bridge No.	Name of Bridge	Dist-Co-Rte-PM
Br No.: 50 0266 Br No.: 50 0326L Br No.: 50 0326R Br No.: 50 0326CR-1 Line	Airport Drive Overcrossing Golden State Avenue Separation Golden State Avenue Separation Golden State Avenue Separation	06-Ker-99-26.78 06-Ker-178-R1.95 06-Ker-178-R1.95 06-Ker-178-R1.95
211.0		

Problem:

Division of Structure Design conducted an Advance Planning Study (APS) on the bridges. Assumptions made in the APS could have significant impacts on the cost, scope, and schedule of the project. Therefore, these project elements need to be further refined at the PS&E level. Based on the APS the scope of work of the bridges is presented below:

Airport Drive Overcrossing Br No. 50 0266:

- Existing restrainers are type C-1 restrainers at hinge locations.

- Need attention to the columns which are designed with #4 ties at 12" c/c. To help facilitate inadequate ductility inherent in the columns it is proposed to install full height steel column casing on all columns.

- The columns at bent #2 have a very high percentage of steel creating a very stiff column which could cause bent cap/column interact problem during a seismic event. More analysis of this bent is needed.

Golden State Avenue Separation Br No. 50 0326L/R/CR-1 Line:

- Existing restrainers are type C-1 restrainers at hinge locations.
- Existing columns are inadequate in ductility.
- There are short seats structurally weak bent caps at bents 5 and 6.
- All three bridges will have abutment 1 seat extenders.
- There is single column bent at bent 3 for Br No. 50 0326CR-1 Line. There is no top mat in the footing which could lead to a potential footing failure during seismic activity.

4. PROPOSALS

Airport Drive Overcrossing Br No. 50 0266:

- Existing C-1 restrainers will be removed and replaced with pipe seat extenders at hinge locations.
- Full height steel column casings will be installed on the columns to help facilitate the inadequate ductility inherent in the columns.
- Bent cap for bent 2 will be retrofitted to strengthen the existing bent cap and insure that all plastic bending is forced into the columns.
- The metal beam guard railings at outside shoulders of SR 99 under the bridge will be removed to facilitate retrofitting works at bent 4 and bent 6 and will be reconstructed to current standard. A new concrete wall will be installed connecting the bridge columns and the MBGR will be connected with the concrete wall.

Golden State Avenue Separation Br No. 50 0326L/R/CR-1 Line:

- Existing C-1 restrainers will be removed and replaced with pipe seat extenders at hinge locations.
- Full height steel column casings will be installed on the columns to help facilitate the inadequate ductility inherent in the columns.
- Bent 5 will be widened by 1'-6" on each side and bent 6 will be widened by 1'-6" on one side to strengthen and allow greater margin of safety to prevent a girder from becoming unseated. A more in-depth analysis is required for bent 6.
- All three bridges will have Abutment 1 seat extenders.

- The footing of single column bent at bent 3 for CR-1 Line will be enlarged in all dimensions and additional piles will be installed to upgrade the footing capacity. Along with the footing retrofit, as in the case with all columns, will be a full height steel casing for bent 3.

No work is proposed in the upper roadway. No pedestrian features are affected.

Since this is a seismic restoration project, deficiencies known to the decks and railings will not be improved under this project. HQ SHOPP Program Advisor, Roger Hunter, concurs with this decision.

This project proposes to correct the seismic deficiencies and the identified structures will conform to Caltrans guidelines in terms of safety for public use.

There are no non-standard features proposed in this project.

5. CORRIDOR AND SYSTEM COORDINATION

The proposed project is in conformance with the current Transportation Concept Report (TCR). The proposed seismic retrofit would not result in any incompatibility to future improvement of the facilities.

6. PROJECT FACTORS

Environmental Status:

A Preliminary Environmental Analysis Report (PEAR) dated October 12, 2011, was prepared (Attachment E).

Environmental Issues:

The anticipated environmental document for the proposed project is a Mitigated Negative Declaration/Categorical Exclusion 6004. This document level has been selected based on the impacts to kit fox habitat which is anticipated to be mitigated below the threshold of significance as defined by CEQA. The California Department of Transportation would act as the lead agency in the preparation of a joint NEPA/CEQA (National Environmental Policy Act/California Environmental Quality Act) environmental document. Caltrans will serve as the NEPA lead agency under its assumption of responsibility pursuant to 23 U.S. Code 327. The estimated time to obtain environmental approval is 12 months from the start of environmental studies.

It is anticipated multiple environmental studies and reports will be required for this project including but not limited to: Initial Site Assessment, Historic Property Survey Report, Historical Resources Evaluation Report, Natural Environmental Study,

06 - Ker - 99,178 - 26.78,R1.95 RU: 1458, EA: 06-0K810K Project ID: 0612000108

> 20.10.201.113 October/2011

Biological Assessment and section 7 consultation with the U.S. Fish and Wildlife Service (USFWS).

Biology:

Biological surveys and studies are required. Potential impacts to the San Joaquin kit fox would require a Biological assessment and consultation with mitigation under programmatic agreement. Special Provisions for migratory birds (swallow), San Joaquin kit fox, and Environmentally Sensitive Area would be necessary. Swallow exclusion is anticipated. There are wetlands within the project limits. A Natural Environmental Study and Biological Assessment would need to be completed for an informal section 7 Consultation. The impacts to kit fox habitat are expected to be minimal with mitigation measure. A pre-construction survey and incidental take permit from the California Department of Fish and Game will be required.

Cultural Resources:

Due to the urban environment and past construction activities, it is assumed that no archaeological sites would be located within the project area. The Golden State Avenue Undercrossing carries State Route 178 over State Route 204 and is listed on the California Historic Bridge Inventory as Category 5 rating (Ineligible for the National Register). A recent study conducted in the project area found that SR 204 was eligible for inclusion in the National Register of Historic Places. While the bridge does not contribute to the eligibility of State Route 204, the project cannot be considered for screening in accordance with Caltrans Section 106 Programmatic Agreement.

Hazardous Waste:

Hazardous waste concerns for this project include asbestos-containing materials in structures, lead-based paint system, and aerially deposited lead contamination. Hazardous waste technical studies would include review of the bridge structures for asbestos-containing materials. An Initial Site Assessment and a Preliminary Site Investigation would be done to determine the extent of potential hazardous material contamination and to recommend proper handling and disposal of any found material.

Materials and or Disposal Site:

Materials and/or disposal sites may be needed for this project.

Air Quality Conformity:

The proposed project would not impact local air quality.

Noise Study:

The proposed project is not considered Type 1 under NEPA. No further analysis is necessary.

Highway Planting and Irrigation:

Efforts should be made during the design stage of this project to preserve as much vegetation as possible. Construction activities may damage or require the removal of existing trees, shrubs and other vegetation and irrigation components. Any vegetation or irrigation that is damaged or removed from within the state right of way as a result of the proposed construction activities will be replaced.

Storm Water Compliance:

A Storm Water Data Report has been prepared. Project activities do not create more than 1 acre of disturbed soil area (DSA), therefore, a Stormwater Pollution Prevention Plan and Notice of Construction are not required. Under Caltrans own minimum standards require implementation of a Water Pollution Control Program (WPCP), which should adequately address protecting surface water quality from pollution.

Right of Way:

All works will be carried out within the existing right of way. No additional right of way will be required for this project.

Rail Road:

There is no railroad property involved.

Utilities:

It is anticipated that no utility relocation will be required. A utility permit search will be conducted to further investigate any utility involvement for this project.

Right of Way Capital Cost:

Right of way capital cost is required for this project for environmental mitigation (Attachment E).

Permits:

The following permits would be required for this project:

- Section 401 certificate from the State of California Regional Water Quality Control Board.
- Section 404 Nationwide Permit from U.S. Army Corps of Engineers.
- Section 1600 Streambed Alteration from Department of Fish and Game.
- NPDES Coordination.
- 2081 Permit State only incidental take of threatened or endangered species.
- Permit from North Kern Water Storage District to work on Calloway Canal.

Concurrent Work:

It is anticipated that no other separate project conflicts at the project locations.

Consequences of Not Doing This Entire Project:

The identified structures will remain seismically deficient and not meet current Caltrans standards.

Value Analysis:

A value analysis study is not required for this project.

Other Information:

This project was selected as an accelerated project for programming in the 2012 SHOPP cycle. Due to the very short time available to develop this project, the Project Development Team and the District have taken various risks in presenting this project for programming.

This project originally consisted of four bridges (Br No. 50-0266, 50-0326L/R, and 46-0056L) in Kern and Tulare Counties that were identified in the Structure Replacement and Improvement Needs (STRAIN) Report as needing seismic restoration work. In September, 2011, Br No. 46-0056L was removed from the project and another bridge (Br No. 50-0326CR-1 Line) added into this project.

7. TRANSPORTATION MANAGEMENT

Transportation Management Plan:

Preliminary traffic impacts and mitigation for this project have been outlined in the attached (Attachment G) Transportation Management Plan Data Sheet (TMP Data Sheet). Costs associated with the traffic impact mitigation measures listed in the TMP Data Sheet have been included in this documents estimate.

A TMP for this project is required and should be requested when the design is complete enough to determine specific traffic impacts, but yet early enough to make design changes/additions required for traffic mitigation.

Lane closure charts and detailed TMP will be provided during PS&E stage.

Lane closures are not allowed when the traffic volume is beyond the capacity of the remaining lanes. Nighttime work outside peak hours is anticipated for this project.

Vehicle Detection Systems:

There is no vehicle detection system proposed within this project.

8. ENVIRONMENTAL DETERMINATION/DOCUMENT

The Anticipated Environmental Determination/Document is Negative Declaration/Mitigated ND/Categorical Exclusion 6004.

9. PROJECT FUNDING/SCHEDULING

The project will be funded from the District Major Capital Outlay Fund, Bridge Seismic Restoration Program HA21 (201.113), in the 2015/2016 Fiscal Year.

Cost Est Proposed			HA21 (201.113)					
		her Str Repla	ructural Work (by Structure) ce	Yes/No	* <u>Cost</u>			
(H	3)	Rehab)					
		(a)	Deck					
		(b)	Superstructure					
		(c)	Substructure					
		(d)	Joints					
		(e)	Bearings					
		(f)	Other					
((C)	Scour	Correction					
(I))	Painti	ng					
(I	Ξ)	Wider	ning					
(F	₹)	Rail R	deplacement (without widening)					
((3)	Streng	gthen		E2 044 000			
(I	H)	Seism	ic Retrofit		\$3,944,000			
(I	()	Vertic	al Clearance Adjustment					
(J	()	Drain	age Rehab					
(H	ζ)	Other			<u></u>			
ST	RUC	TURE	COSTS SUBTOTALS (includes contingency)		\$3,944,000			
District W	ork				<u>\$314,000</u>			
(4	4)	Traffi	c Control					
(H	3)	Trans	portation Management Plan	•	\$411,000 \$25,000			
((C)	Cleari	ng and Grubbing					
(I))	Bridg	e Approach Guardrail/Barrier/Dike etc.		\$94,300 \$50,000			
(I	Ξ)	RE Office Space						
(I	₹)	Rock	Slope Protection					
((G)	Utility	Relocation					
(I)	H)	Railro	ad Agreements					
(1	[)	Right	of Way Capital		ea10.000			
(J	J)	Envir	onmental Compliance		\$218,000			
(I	K)	Storm	water Compliance		<u>\$160,000</u>			
(]	L)	Roads	side Management					

Pavement beyond Gore Area	
Minor Concrete (Island Paving)	<u>\$5,000</u>
Maintenance Vehicle Pull outs	
Off-Freeway Access (gates, stairways, etc.)	
Roadside Facilities (M) Minor Items/Mobilization/Supplemental Work etc.	<u>\$435,936</u>
(Minor items-10%, Mobilization-10%, Supplemental Work-10%) SUBTOTALS	<u>\$1,798,236</u>
Contingency (25%)	<u>\$374,633</u>
DISTRICT COSTS SUBTOTALS	\$2,172,869
SUM OF SUBTOTALS Right of Way Capital	\$6,116,869 \$36,930

TOTAL PROJECT COST

Capital and Support Cost Summary:

(Capital Cost Estimate provided by Design & R/W, Support Cost Estim from XPM.)

HOIII AF WI.)							1
Project Cost							
Component			Total				
	12/13	13/14	14/15	15/16	16/17	17/18	
R/W Capital			\$45				\$45
Const. Capital**				\$6,980			\$6,980
PA&ED*	\$280						\$280
PS&E*		\$1,314					\$1,314
R/W Support*				\$20			\$20
Const.Support*					\$1,500		\$1,500
Total	\$280	\$1,314	\$45	\$7,000	\$1,500		\$10,139

All costs X\$1000. Support Categories are the same as those identified by SB 45. Construction Capital escalated at 3%. Right of Way Capital estimate is escalated. Support cost escalated at 3.1%

Support Cost ratio: 44% [All Support Costs (*) divided by the sum of the escalated Construction Capital (**) and the escalated R/W Capital]

\$6,153,799

06 - Ker - 99,178 - 26.78,R1.95 RU: 1458, EA: 06-0K810K

Project ID: 0612000108

20.10.201.113 October/2011

Project Schedule:

Milestones	Delivery Date
	(Month, Day, Year)
Begin Environmental	10/01/2012
Notice of Intent (NOI)	10/01/2012
Circulate DED	11/01/2013
PA & ED	02/03/2014
PS&E to DOE	09/01/2015
Project PS&E	12/15/2015
Right of Way Certification	04/01/2016
Ready to List	04/15/2016
Approve Contract	11/01/2016
Contract Acceptance	08/01/2018
End Project	08/03/2020

10. FEDERAL COORDINATION

This project is eligible for federal-aid funding and is considered to be STATE-AUTHORIZED under current FHWA-Caltrans Stewardship Agreements.

11. PROJECT PERSONNEL

Location	Contact	Function	Phone No.
District 6	Judy Aguilar	Project Manager	559-243-3457
District 6	Sam Katich	Bridge Coordinator	559-488-4247
District 6	Ali Alqatami	Design Manager	559-243-3475
District 6	Ranjit Mondal	Project Engineer	559-243-3596
District 6	Kirsten Helton	Environmental Manager	559-445-6282
District 6	Nick Dumas	Right of Way	559-445-6195
District 6	Houa Yang	Right of Way	559-445-6243
District 6	Albert Lee	Traffic Operations	559-488-4111
HQ Structure	Mike Downs	Structures Liaison Engineer	916-227-9365
HQ Structure	Fritz Hoffman	Senior Bridge Engineer	916-227-8483
HQ Structure	Gloria R Gutierrez	Structure Project Engineer	916-227-8080
Construction	Les Inagaki	Senior Bridge Engineer	661-391-4761

12. PROJECT REVIEWS

Project Reviewed by:

Field Review	Design and Construction Team	Date	10/05/11
District 6 Bridge Coordinator	Sam Katich	Date	08/10/11
District Safety	Safety Review Committee	Date	10/19/11
SHOPP Program Advisor	Roger Hunter	Date	
HQ Design Coordinator	Michael Downs	Date	09/21/11
HQ Design Reviewer	Mike Janzen	Date	10/24/11
Constructibility Review	Review Committee	Date	10/24/11
District Safety SHOPP Program Advisor HQ Design Coordinator HQ Design Reviewer	Safety Review Committee Roger Hunter Michael Downs Mike Janzen	Date Date Date Date	09/21/1

13. ATTACHMENTS

- A. Project Map
- B. Conceptual Report
- C. Advance Planning Study Transmittal
- D. Planning Cost Estimate
- E. Preliminary Environmental Analysis Report
- F. R/W Data Sheet
- G. TMP Data Sheet
- H. Storm Water Data Report (Signed Cover Page)
- I. Scoping Team Field Review Attendance Roster
- J. Constructability Review Attendance Roster
- K. Risk Management Plan

CC:

HQ Division of Design – (2 copies)

HQ program Advisor - Roger Hunter

HQ Division of Engineering Services – (5 copies)

HQ Transportation Programming - Rick Guevel

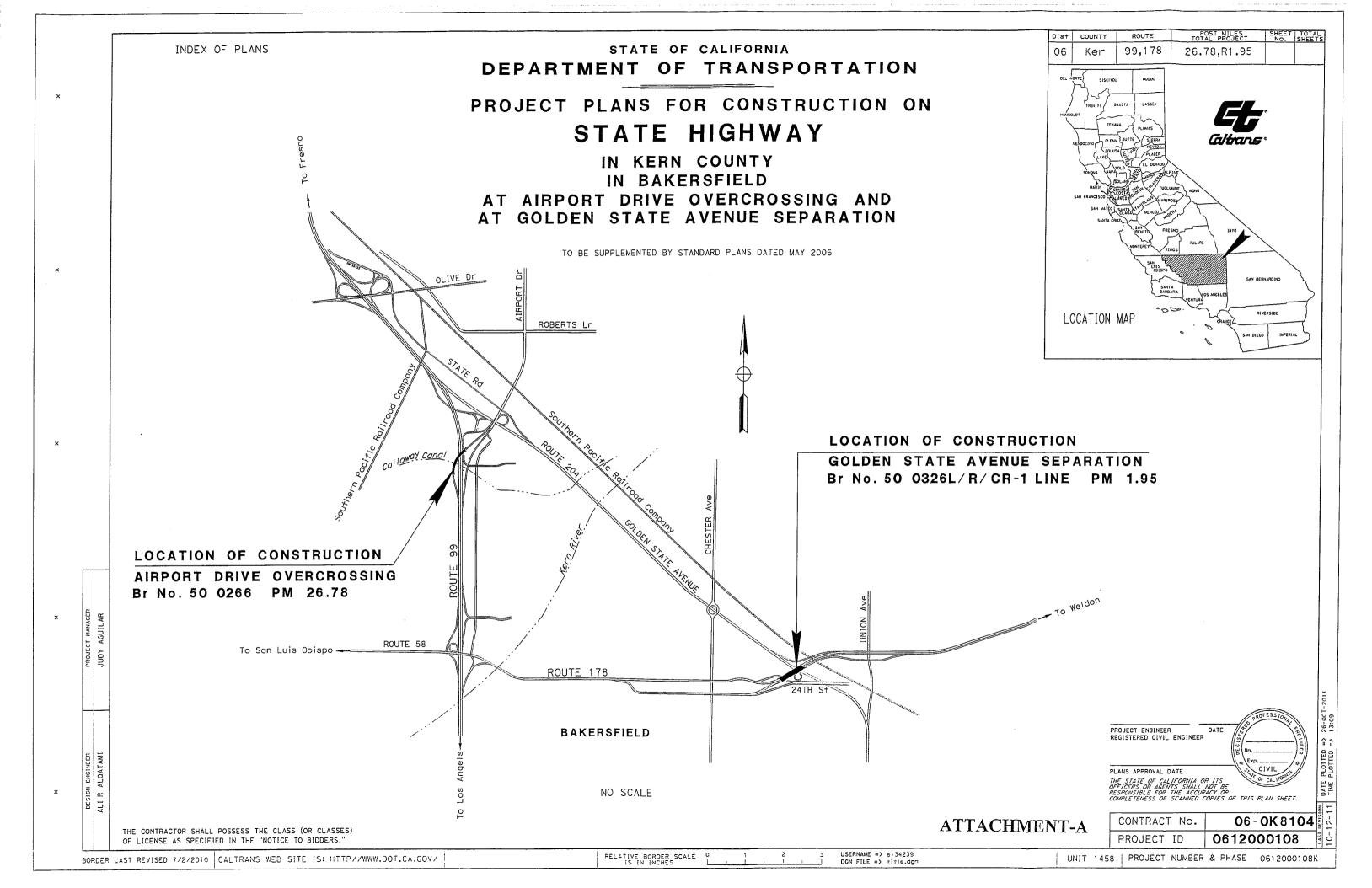
HQ Environmental - Bob Pavlik

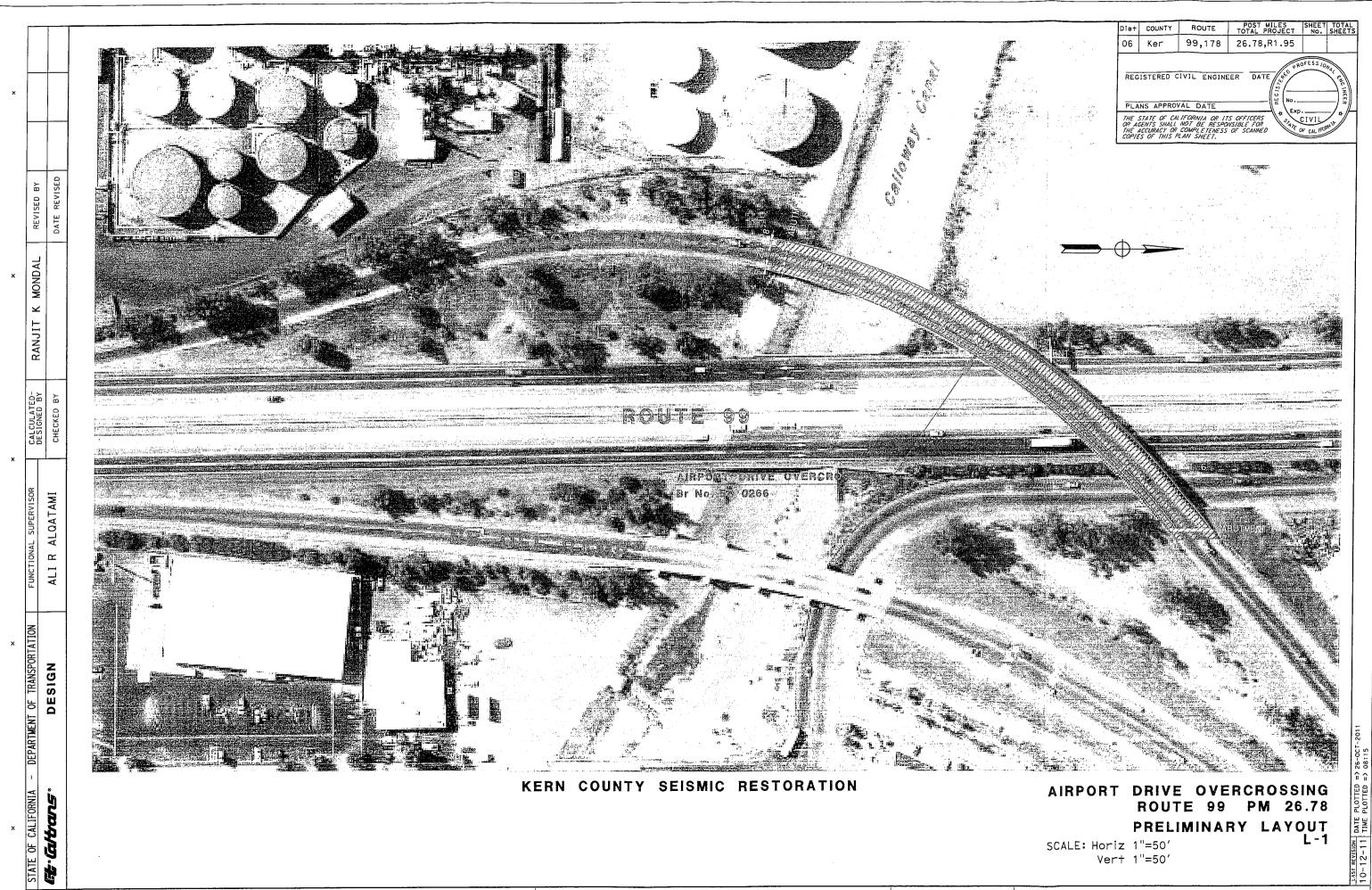
Project Manager - Judy Aguilar

Design Manager - Ali Alqatami (2 copies)

Resident Engineer -

District Maintenance – John Liu
District Traffic Management – Banjamin Camarena
Region Traffic Design – Mohammed Qatami
District Traffic Operations – Albert Lee
Region Materials – Ted Mooradian
Region Environmental – David Hyatt
Region Right of Way – Nick Dumas
District Planning – Steve Curti
PPM – Andrea Schmuki
Surveys – Hanna Kassis (electronic copy only)
HQ DES/OPPM – Peggy Lim
District Records – Beverly Connolly (electronic copy only)





BORDER LAST REVISED 7/2/2010

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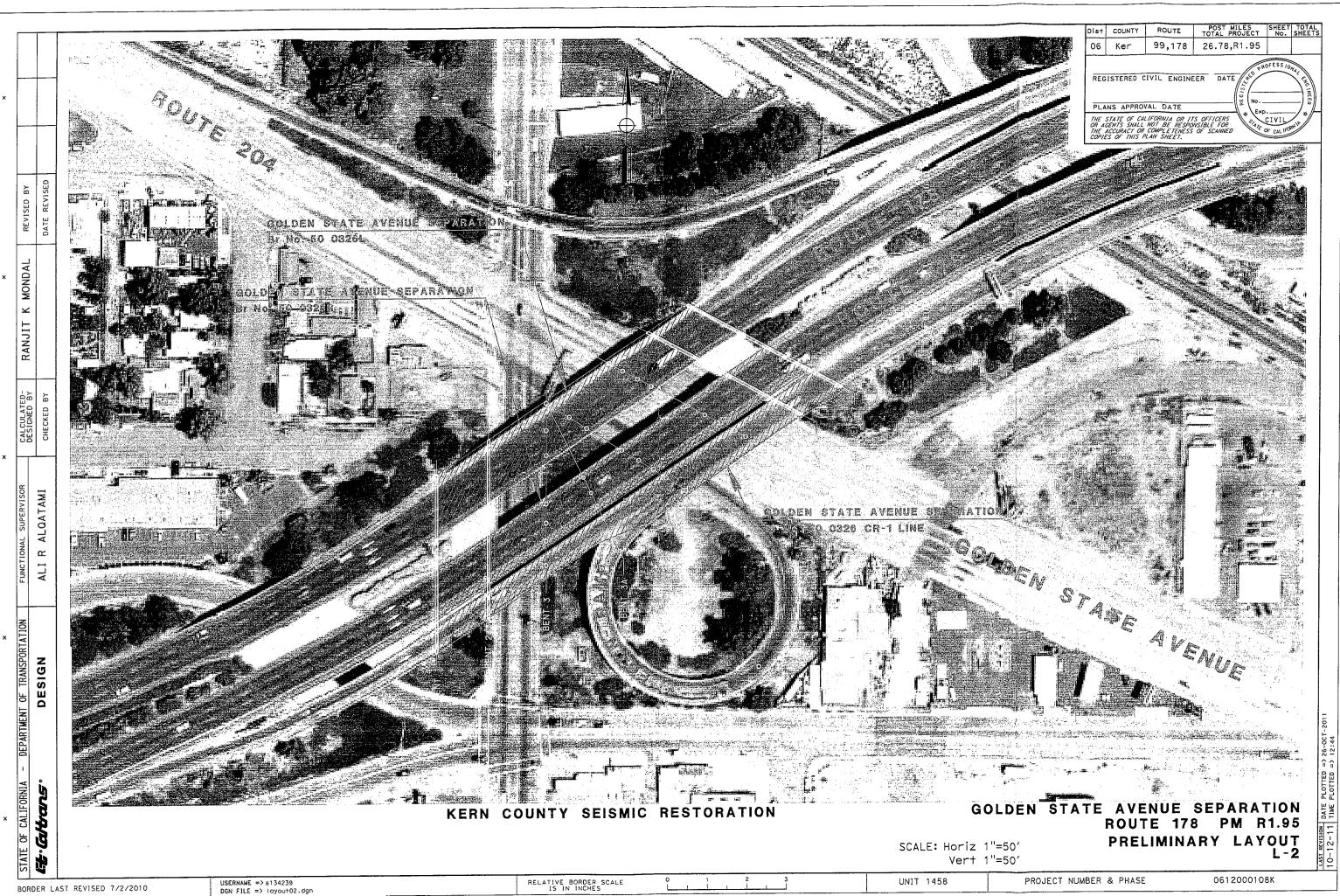
RELATIVE BORDER SCA

0 1

UNIT 1458

PROJECT NUMBER & PHASE

0612000108K



BORDER LAST REVISED 7/2/2010

EA 06-0K810k Ker-99-26.78 Br. 50-0266 Ker-178-R1.95 Br. 50-0326R/L Tul-99-21.43 Br. 46-0056L

CONCEPTUAL REPORT Kern and Tulare Counties Seismic Restoration

INTRODUCTION

It is proposed to mitigate seismic deficiencies at the above identified 4 bridges. The estimated cost of the project is \$5,826,000 and is proposed to be funded from the District Major capital outlay Fund, Seismic Restoration Program (201.113), in the 2015/2016 Fiscal Year.

BACKGROUND AND DEFICIENCY

The above facilities were identified in the Structure Replacement and Improvement Needs Report (STRAIN) as needing seismic restoration work.

PROPOSAL DESCRIPTION

Identified structures have varying degrees of scope, the full extent of which will be explored and developed on an individual site basis.

ENVIRONMENTAL AND RIGHT OF WAY

There are no additional right-of-way requirements or significant environmental impacts anticipated for this project.

PROJECT PERSONNEL

District 6 Maintenance Engineer

Bill Moses

559-445-6514

District 6 Bridge Coordinator

Sam Katich

559-488-4247

APPROVAL RECOMMENDED BY

Bill Moses

District 6 Maintenance

DATE

Attachments:

Bridge Needs Reports

Scope of work:

50-0266 Airport Drive Overcrossing

- Existing C-1 restrainers will be removed and replaced with pipe seat extenders at both hinge locations.
- Full height steel column casings will be installed on all columns on the bridge to help facilitate the inadequate ductility inherent in the columns.
- Bent 2 columns have very high percentage of steel in the columns, 4.4%, creating a very stiff column which could cause bentcap/column interaction problems during seismic event. More analysis of this bent is needed but bent 2 has the possibility of needing a bent cap retrofit to strengthen the existing bent cap and insure that all plastic bending is forced into the columns.

Golden State Avenue Separation

- Existing C-1 restrainers will be removed and replaced with pipe seat extenders at hinge locations.
- Full height steel column casings will be installed on all columns on the bridge.
- Other deficiencies which have been noticed are short seats structurally weak bent caps at bent 5 and bent 6 for the bridges, Left, Right and CR-1 Line. It is recommended that bent 5 be widened by 1'-6" on each side and bent 6 be widened by 1'-6" on one side to strengthen and allow a greater margin of safety to prevent a girder from becoming unseated. A more in-depth analysis is required for bent 6.
- All three bridges will have Abutment 1 seat extenders.
- The footing of single column bent at bent 3 for right CR-1 to be enlarged in all dimensions and additional pile installed to upgrade the footing capacity. Along with the footing retrofit, full height steel column casing to be installed for bent 3.

California Department of Transportation Office of Structure Maintenance and Investigation

BRIDGE NEEDS/PROJECT REPORT

Date : 08/09/2011

COMPLETED WORK NOT SHOWN

Page 1 of 2

Bridge No.: 50 0266 Location: 06-KER-099-26.78

Name: AIRPORT DRIVE OC

ABME Area: 06A - GARY CLAGGETT

Last Insp: 10/14/2009 Last Insp By: G.Claggett

Structure Type & Material Structure Details

atl: 2-CONCRETE CONT Year Build (27): 1963

Str Matl: 2-CONCRETE CONT

Design Type: 05-BOX BEAM OR GDR - MULTIPLE

Feature Intersected (6): STATE ROUTE 99

Deck Type: 1-CIP CONCRETE

Facility Carried (7): AIRPORT DRIVE

Type of Service on (42a): 1 HIGHWAY

Dk Surface: 6-BITUMINOUS

Dk Membrane: 0-NONE

Under (42b): 1 HIGHWAY

Dk Protect: 0-NONE

Structure Length (49): (m) 189.6

Permit Rating:

PPPPP

Rail Rating:

0111

Structure Condition

-Suff Rating: 88.70

Health Index: 100.00

Status: FUNCTIONALLY OBSOLETE

Paint Index:

Scour Code: N NOT OVER WATERWAY

Deck (58): 7 GOOD

Channel (61): N N/A (NBI)

Superstructure(59): 7 GOOD

Culvert (62): N N/A (NBI)

Substructure(60): 7 GOOD

Waterway (71): N NOT APPLICABLE

4.5° 4.	the light			harrte		a to	Ele	ment 0	ondit	ton and a second se
Unit	Elem	Env	Quanity	Units	St.1	St.2	St.3	St.4	St.5	Description
101	13	2	2290	sq.m.	2290	0	, o	0	0	Concrete Deck - Unprotected w/ AC Overlay
101	105	2	622	m.	622	0	0	0	0	Reinforced Concrete Closed Webs/Box Girder
101	205	2	12	ea.	12	0	0	O	0	Reinforced Conc Column or Pile Extension
101	215	2	12	m.	12	0	O	Ö	O	Reinforced Conc Abutment
101	227	2	1	ea.	3.	0	0	0	O	Reinforced Conc Submerged Pile
101	302	2	120	m.	120	0	0	0	0	Compression Joint Seal
101	311	2	10	ea.	10	0	0	0	0	Moveable Bearing (roller, sliding, etc.)
101	333	2	380	m.	380	0	0	0	. 0	Other Bridge Railing

Project Information

\$4253 Status: 8 10-YEAR PLAN

^{*} This bridge contains multiple ratings. The controlling rating is shown for the bridge.

California Department of Transportation Office of Structure Maintenance and Investigation

BRIDGE NEEDS/PROJECT REPORT

Date : 08/09/2011

COMPLETED WORK NOT SHOWN

Page 2 of 2

Bridge No.: 50 0256 Location: 06-KER-099-26.78

Name: AIRPORT DRIVE OC

ABME Area: 06A - GARY CLAGGETT

A transfer of experience of the first

Last Insp: 10/14/2009 Last Insp By: G.Claggett

Outstanding Work

\$2,600 Repair aluminum rail, see bridge report Rec. Date: 10/14/2009 EstCost: Action : Railing-Misc. StrTarget :
Work By : Bridge Crew DistTarget:
Status : Proposed Comp Date : 2 years EA : Rec. Date: 03/28/2007 EstCost: \$1,147,000 Short seat hinges, non-ductile columns. Priority 4. Final Action : Seismic-Retrofit StrTarget : 2 years Score 12.6. Work By : STRAIN DistTarget: Status : Ten Year Plan Comp Date :

0K810

EA:

 $[\]star$ This bridge contains multiple ratings. The controlling rating is shown for the bridge.

California Department of Transportation Office of Structure Maintenance and Investigation

BRIDGE NEEDS/PROJECT REPORT

Date : 08/09/2011

COMPLETED WORK NOT SHOWN

Page 1 of 1

Bridge No.: 50 0326L Location: 06-KER-178-R1.95-BKD

Name: GOLDEN STATE AVENUE SEPARATIO

ABME Area: 06A - GARY CLAGGETT Last Insp: 12/09/2008 Last Insp By: G.Claggett

Structure Type & Material

Structure Details

Str Matl: 5-PRESTRESS CONC

Year Build (27): 1967

Design Type: 02-STRINGER/MULTI-BEAM OR GDR

Deck Type: 1-CIP CONCRETE

Feature Intersected (6): ST RTE 204 & Q STREET

STATE ROUTE 178 WB Facility Carried (7):

Dk Surface: 6-BITUMINOUS

Type of Service on (42a): 1 HIGHWAY

Dk Membrane: 0-NONE

Under (42b): 1 HIGHWAY

Dk Protect: 0-NONE

Structure Length (49): (m) 125

PPPCC

Permit Rating:

Rail Rating:

0000

Structure Condition

Suff Rating: 92.10 Health Index: 100.00 Status:

Paint Index:

Scour Code: N NOT OVER WATERWAY

Deck (58): 7 GOOD

Channel (61): N N/A (NBI)

Culvert (62): N N/A (NBI)

Substructure(60): 7 GOOD

Superstructure (59): 8 VERY GOOD

Waterway (71): N NOT APPLICABLE

1. (e) 1. 1.(d. 1.0)		, espirit	in the second of	A. P. X	si ya to Wa y		Ele	ment C	ondit.	ion
Unit	Elem	Env	Quanity	Units	St.1	St.2	St.3	St.4		Description
101	13	2	2170	sq.m.	2170	0	0	0	0	Concrete Deck - Unprotected w/ AC Overlay
101	105	2	78	m.	78	0	O	0	0	Reinforced Concrete Closed Webs/Box Girder
101	109	2	376	m.	376	O	O	0	0	P/S Conc Open Girder/Beam
101	181	2	8	ea.	8	0	0	O	0	Type C-1 EQ Restrainer Cable
101	205	2	9	ea.	9	Q	0	O	0	Reinforced Conc Column or Pile Extension
101	210	2	46	m.	46	0	Đ	0	0	Reinforced Conc Pier Wall
101	215	2	46	m.	46	0	Ō	0	0	Reinforced Conc Abutment
101	234	2	23	m.	23	0	0	O	0	Reinforced Conc Cap
101	302	2	34	m.	34	٥	0	0	0	Compression Joint Seal
101	312	2	2	ea.	2	0	0	0	0	Enclosed/Concealed Bearing
101	333	2	274	m.	274	0	0	0	0	Other Bridge Railing

Project Information

Dist/EA: 05 - 0K810

FY: 2016 Tot.Cost(\$):

\$4253 Status: 8 10-YEAR PLAN

Outstanding Work

Rec. Date:	03/28/2007	EstCost:	\$1,151,000	Short seat hinges, non-ductile pile extensions. Priority
Action : Work By :	Seismic-Retrofit STRAIN	StrTarget : DistTarget:	2 years	4. Final Score 0.9.
Status :	Ten Year Plan	Comp Date :		
1		EA :	0K810	

^{*} This bridge contains multiple ratings. The controlling rating is shown for the bridge.

California Department of Transportation Office of Structure Maintenance and Investigation

BRIDGE NEEDS/PROJECT REPORT

Date : 08/09/2011

COMPLETED WORK NOT SHOWN

Page 1 of 1

Bridge No.: 50 0326R

Location: 06-KER-178-R1.95-BKD

Name: GOLDEN STATE AVENUE SEPARATIO

ABME Area: 06A - GARY CLAGGETT

Last Insp: 12/09/2008 Last Insp By: G.Claggett

Structure Type & Material 2-CONCRETE CONT

Year Build (27):

Str Matl:

Design Type: 05-BOX BEAM OR GDR - MULTIPLE

Feature Intersected (6): ST RTE 204 & Q STREET

Facility Carried (7): STATE ROUTE 178 EB

Deck Type: 1-CIP CONCRETE

Dk Surface: 6-BITUMINOUS

Type of Service on (42a): 1 HIGHWAY

Under (42b): 1 HIGHWAY

Structure Details

Dk Protect: 0-NONE

Dk Membrane: 0-NONE

Structure Length (49): (m) 142.3

Permit Rating:

PPPOO

Rail Rating:

0000

Structure Condition Suff Rating: 76.00

Health Index: 100.00

Status: FUNCTIONALLY OBSOLETE

Paint Index:

Scour Code: N NOT OVER WATERWAY

Deck (58): 7 GOOD

Channel (61): N N/A (NBI)

Superstructure (59): 8 VERY GOOD

Culvert (62): N N/A (NBI)

Substructure(60): 7 GOOD

Waterway (71): N NOT APPLICABLE

4 49 49 4		×13					Ele	ment C	ondit	ion
	Elem			Units	St.1	St.2	St.3	St.4	St.5	Description
101	1.3	2	2150	sq.m.	2160	0	0	0	0	Concrete Deck - Unprotected w/ AC Overlay
101	105	2	94	m.	94	0	0	0	0	Reinforced Concrete Closed Webs/Box Girder
101	109	2	339	m.	339	0	0	0	0	P/S Conc Open Girder/Beam
101	181	2	8	ea.	8	0	0	O	G	Type C-1 EQ Restrainer Cable
101	205	2	12	ea.	12	0	0	0	0	Reinforced Conc Column or Pile Extension
101	210	2	39	m.	39	0	0	0	0	Reinforced Conc Pier Wall
101	215	2	39	m.	39	0	0	0	0	Reinforced Conc Abutment
101	234	2	20	m.	20	0	0	0	0	Reinforced Conc Cap
101	301	2	30	m.	30	0	0	0	0	Pourable Joint Seal
101	312	2	2	ea.	2	0	0	0	0	Enclosed/Concealed Bearing
101	333	2	309	m.	309	0	0	Ō	0	Other Bridge Railing

Dist/EA: 06 - 0K810 FY: 2016 Tot. Cost(\$):

\$4253

Status: 8 10-YEAR PLAN

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project Information of the first of the project Information of the first first fill of the first of the fill of th

Rec. Date:	03/28/2007	EstCost:	\$1,121,500	Short sear hinges, non-ductile pile extensions. Priority
Action :	Seismic-Retrofit	StrTarget :	2 years	4. Final Score 0.9.
Work By :	STRAIN	DistTarget:		
Status :	Ten Year Plan	Comp Date :		
		EA:	0K810	

^{*} This bridge contains multiple ratings. The controlling rating is shown for the bridge.

Office of Structure Maintenance and investigation

Structure Details

Page 1 of 1

The second of th

BRIDGE NEEDS/PROJECT REPORT

Date: 08/09/2011 COMPLETED WORK NOT SHOWN

Bridge No.: 46 0056L Location: 06-TUL-099-21.43 Name: SOUTH BRANCH TULE RIVER

ABME Area: 06B - ANDY DANG Last Insp: 10/20/2010 Last Insp By: AN.Dang/RH.Le

Structure Type & Material

Str Matl: 1-CONCRETE Year Build (27): 1931

Design Type: 19-CULVERT Feature Intersected (6): SOUTH BRANCH TULE RIVER

Deck Type: 1-CIP CONCRETE Facility Carried (7): STATE ROUTE 99 SB

Scour Code: 8 STABLE ABOVE FOOTING

Dk Surface: 6-BITUMINOUS Type of Service on (42a): 1 HIGHWAY

Dk Membrane: 0-NONE Under (42b): 5 WATERWAY

Dk Protect: 0-NONE Structure Length (49): (m) 91.7

Permit Rating: PPPPP
Rail Rating: 1111

Structure Condition

Suff Rating: 90.50 Health Index: 100.00 Status:

 Deck (58):
 N N/A (NBI)
 Channel (61):
 6 BANK SLUMPING

 Superstructure(59):
 N N/A (NBI)
 Culvert (62):
 8 NO MAJOR PROBLEM

 Substructure(60):
 N N/A (NBI)
 Waterway (71):
 6 EQUAL MINIMUM

Element Condition Unit Elem Env Quanity Units St.1 St.2 St.3 St.4 St.5 Description 0 0 0 Reinforced Concrete Culvert m. 305 101 241 2 305 O Other Bridge Railing Ð 101 333 2 96 96 0 0 0 Misc. Railing with 0.33 m sidewalk 0 0 96 m. 96 0 101 334 2

Project Information

Dist/EA: 06 - 0K810 FY: 2016 Tot.Cost(\$): \$4253 Status: 8 10-YEAR PLAN

Outstanding Work

Rec. Date:	10/20/2010	EstCost:	\$7,800	Patch the soffit spalls.
Action : Work By :	Super-Patch spalls Bridge Crew	StrTarget : DistTarget:	2 years	
Status :	Proposed .	Comp Date :		
		EA :		
Rec. Date:	01/16/2007	EstCost:	\$503,500	Slab bridge with in-span short seat hinges, non-ductile pile extensions. Prioity 2 & 4. Fnal Score 7.675.
Action :	Seismic-Retrofit	StrTarget :	2 years	pile excensions. Pilotty 2 & 4: That score 7:075.
Work By :	STRAIN	DistTarget:		
Status :	Ten Year Plan	Comp Date :		
		EA:	0K810	

Notes:

Paint Index:

^{*} This bridge contains multiple ratings. The controlling rating is shown for the bridge.

Memorandum

Flex your power!

Be energy efficient!

To:

ALI ALQATAMI

BRANCH CHIEF, DESIGN I-Z

DISTRICT 06

Date: October 18, 2011

File: 06-Various Counties and

Routes

Dist-06 EA 0K810K PI 0612000108 K Seismic Restoration

From:

FRITZ HOFFMAN

Bridge Design Branch 06

Office of Bridge Design Central

Structure Design

Division of Engineering Services

Subject:

Advance Planning Study Transmittal

Attached is the Advance Planning Study for the above referenced project.

The forecast structure cost, including time related overhead, mobilization and contingencies, is as follows:

Structure Name	Br. No.	Estimated Cost
Airport Drive OC	50-0266	\$ 1,033,000
Golden State Ave UC	50-0326	\$ 2,911,000
	Total Cost =	\$ 3,944,000

The following table summarizes the projected total structure cost based on a variable escalation rate. The escalated structure cost is provided for informational purposes only and does not replace annual cost updates as required by Department policy.

Years Beyond Midpoint	Escalated Cost
1	\$ 4,034,712
7	\$ 4,155,753
3	\$ 4,321,983
1	\$ 4,486,219
5	
5	\$ 4,607,347

ALI ALQATAMI - District 06 October 18, 2011 Page 2

This Advance Planning Study and associated cost estimate is based on the following assumptions:

- 1. Airport Drive OC retrofit consists of full length column steel casings at each Bent. This would require diverting the water in the Calloway Canal if water is present.
- 2. Airport Drive OC hinges will have pipe seat extenders. The hinges can be accessed from the deck or soffit.
- 3. The presence of the Kit Fox has been noted within the proximity of the Airport Drive OC Bridge. The actual location of habitat can change within short periods of time therefore the Kit Fox locations will need monitoring until and during construction. This could influence access to work areas.
- 4. Golden State Ave. UC consists of a Right, Left and CR-1 Line Bridges. All three bridges will have Abutment 1 seat extenders. This could require lane closures.
- 5. Golden State Ave. UC columns will have full length steel casings extending to the top of footings. In the case of Bent 3 of the CR-1 Line the footing will also need to be retrofitted. The footing retrofit cannot encroach into the adjacent city street.
- 6. All current hinge restrainers will be replaced with pipe hinge seat extenders. The exact number of pipe hinge seat extenders needed is contingent on a more in-depth seismic analysis.

If you have any questions or if you need additional information regarding this study, please contact Gloria Reyes-Gutierrez at (916) 227-8080 or Fritz Hoffman at (916) 227-8483.

Attachments

c: PEGGY LIM, Project Liaison Engineer
JOHN STAYTON, Bridge Design Office Chief
MIKE DOWNS, Technical Liaison Engineer
H. JAVIER CHAVEZ, Branch Chief, Bridge Architecture & Aesthetics
PETE WHITFIELD, Office Chief, Structure Maintenance & Investigations
KEVIN WALL, Program Advisor, Structure Maintenance & Investigations
JOHN BABCOCK, Structure Construction Assistant Deputy Division Chief
ROY BIBBENS, Geotechnical Services
QIANG HUANG, Geotechnical Services
STEVE NG, Structure Hydraulics & Hydrology

GRAND TOTAL

COMMENTS:

BUDGET ESTIMATE AS OF

10/7/11

\$1,032,543

\$1,033,000

GRAND TOTAL

COMMENTS:

BUDGET ESTIMATE AS OF

\$2,911,000



Fritz Hoffman/HQ/Caltrans/CAGov 09/06/2011 04:10 PM

- To M Gloria Reyes-Gutierrez/HQ/Caltrans/CAGov@DOT
- cc· Rachel Washington/HQ/Caltrans/CAGov@DOT, David Alvarez/HQ/Caltrans/CAGov@DOT

bcc

Subject Fw: EA No. 06-0K810K; Airport Drive OC Br. No. 50-0266

FRITZ HOFFMAN
Senior Bridge Engineer
Office of Bridge Design Central
Division of Engineering Services
(916) 227-8483

----- Forwarded by Fritz Hoffman/HQ/Caltrans/CAGov on 09/06/2011 04:10 PM -----

Reza Mahallati/HQ/Caltrans/CAGov

To Fritz Hoffman/HQ/Caltrans/CAGov@DOT

09/06/2011 02:07 PM

cc Michael Downs/HQ/Caltrans/CAGov@DOT, Qiang Huang/HQ/Caltrans/CAGov@DOT

Subject EA No. 06-0K810K; Airport Drive OC Br. No. 50-0266

Foundation Consideration

Airport Drive OC (50-0266): Ker-99-PM 26.7

- Current foundation type: 6 spans, driven concrete piles.
- Soil condition: Up to 20 ft of slightly compact sand with gravels, then dense to very dense sand/gravel
 mixture with cobbles.
- Feasible foundation types to resist lateral loads: CISS/open- end pipe piles with central relief as needed, Concrete driven/closed end pipe piles may hit refusal and may not have enough pile length for lateral below potential liquefaction layers. CIDH is difficult to construct.
- Resource agencies may have restrictions regarding pile driving on levees/embankments/their
 properties, foundation types may be impacted by this and discussions would be needed between
 Caltrans and applicable resource agencies during the design phase of the project.

Seismicity

Based on the Caltrans 2009 Seismic Design Procedure, the nearest active fault to the site is the White Wolf fault (Fault ID No.103) with Mmax of 7.3. The fault is located southeast of the bridge site, and the rupture distance to the fault plane from the bridge site is estimated to be 19.0 miles.

Based on the limited As-Built Log of Test Borings (LOTB) dated December 1958, a Vs30 (average shear wave velocity for the top approximate 100 feet of soil) was extrapolated using the SPT blow counts and the correlation formulas to be 1130 feet /second.

Using the above shear wave velocity, the design ground motion is controlled by the probabilistic method; and the procedure is based on the USGS 5% probability of exceedance in 50 years with a return period of 975 years. Please note the probabilistic spectral acceleration were obtained from the USGS web site at https://geohazards.usgs.gov/deaggint/2008/. The preliminary design Acceleration Response Spectrum-curve-is-attached, and-the-peak-ground-acceleration is-estimated-to-be-0.35g.

The potential for soil liquefaction is considered low to moderate.

The potential for surface rupture at the site due to fault movement is considered insignificant since there are no known faults projecting towards or passing directly through the project site.

We propose to perform a site specific foundation investigation to better characterize the foundation materials. Once the future foundation exploration is completed, we will re-evaluate the seismic recommendations.



Br50-0266 Airport OC NGA pre ARS.pdf

Reza Mahallati Senior Material and Research Engineer Office-of-Geotechnical-Design---North---Office (916) 227-1033 Fax (916) 227-1082

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Airport Drive OC

Bridge No. 50-0266

06-0K810K EA No.

												,								
Sa(g)	0.346	0.405	0.464	0,523	0.582	0.642	0.687	0.732	0.777	0.751	0.725	0,652	6/5'0	0.471	0.364	0.280	0.199	0.131	0.094	0.078
Period (s)	0.010	0.020	0:030	0.050	0.075	0.100	0.120	0.150	0.200	0.250	. 0.300	0.400	0.500	0.750	1.000	1.500	2.000	3.000	4.000	5:000

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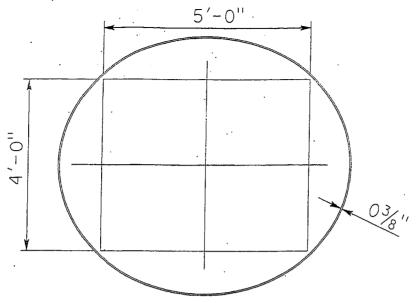
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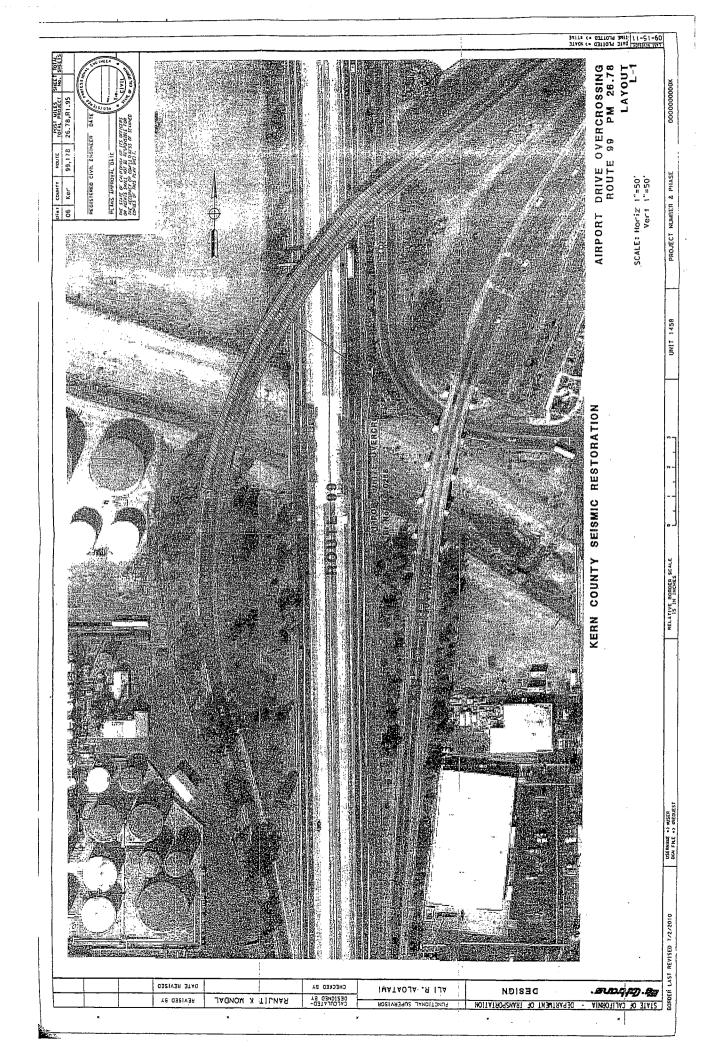
Notes Please note the Design ARS curve is based on the USGS 5% probability of exceedance in 50 years (975 year return period).

Design Response Spectrum Preliminary "

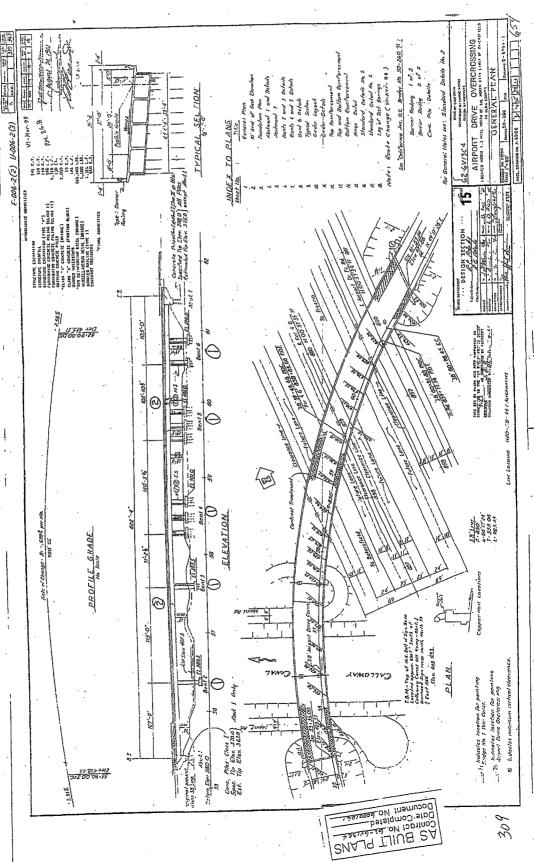
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Area = 0.6412 sq ft Column. Casing



(1) Full Height Steel Column Casing (2) Pipe Seut Extender



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Fritz Hoffman/HQ/Caltrans/CAGov 09/06/2011 04:10 PM

To M Gloria Reyes-Gutierrez/HQ/Caltrans/CAGov@DOT

cc David Alvarez/HQ/Caltrans/CAGov@DOT, Rachel Washington/HQ/Caltrans/CAGov@DOT

hcc

Subject Fw: EA No. 06-0K810K; Golden State Ave Sep. Br. No. 50-0326 R/L

FRITZ HOFFMAN
Senior Bridge Engineer
Office of Bridge Design Central
Division of Engineering Services
(916) 227-8483

----- Forwarded by Fritz Hoffman/HQ/Caltrans/CAGov on 09/06/2011 04:09 PM -----

Reza Mahailati/HQ/Caltrans/CAGov

To Fritz Hoffman/HQ/Caltrans/CAGov@DOT

09/06/2011 02:05 PM

cc Michael Downs/HQ/Caltrans/CAGov@DOT, Qiang Huang/HQ/Caltrans/CAGov@DOT

Subject EA No. 06-0K810K; Golden State Ave Sep. Br. No. 50-0326

Foundation Consideration

Golden State Ave Separation (50-0326R/L): Ker-178-PM R1.95

• Current foundation type: 5 spans, small diameter CIDHs.

 Soil condition: loose to compact sand/clayey sand with gravels for upper 25 ft, then dense/v dense sandy gravel with cobbles.

 Feasible foundation types to resist lateral loads: CISS/open- end pipe piles with central relief as needed, CIDH.

Resource agencies may have restrictions regarding pile driving on levees/embankments/their properties, foundation types may be impacted by this and discussions would be needed between —Caltrans and applicable resource agencies during the design phase of the project.

Seismicity

Based on the Caltrans 2009 Seismic Design Procedure, the nearest active fault to the site is the White Wolf fault (Fault ID No.103) with Mmax of 7.3. The fault is located southeast of the bridge site, and the rupture distance to the fault plane from the bridge site is estimated to be 17.1 miles.

The As-Built Log of Test Borings (LOTB) is not readable and therefore, a Vs30 (average shear wave velocity for the top approximate 100 feet of soil) of 890 feet per second was judged to be applicable at this site

Using the above shear wave velocity, the design ground motion is controlled by the probabilistic method; and the procedure is based on the USGS 5% probability of exceedance in 50 years with a return period of 975 years. Please note the probabilistic spectral acceleration were obtained from the USGS web site at https://geohazards.usgs.gov/deaggint/2008/. The preliminary design Acceleration Response Spectrum curve is attached, and the peak ground acceleration is estimated to be 0.37g.

Due to condition of the LOTB, we are unable to determine the potential for liquefaction.

The potential for surface rupture at the site due to fault movement is considered insignificant since there are no known faults projecting towards or passing directly through the project site.

We propose to perform a site specific foundation investigation to better characterize the foundation materials. Once the future foundation exploration is completed, we will re-evaluate the seismic recommendations.



Br50-0326RLGolden State Ave Sep NGA ARS.pdf

Reza Mahallati Senior Material and Research Engineer Office of Geotechnical Design - North Office-(9-16)-2-27-1-033 Fax (916) 227-1082

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Golden State Ave Sep

Bridge No. 50-0326 R/L

06-0K810K EA No.

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Deterministic Procedure Data

White Wolf Fault

103 LLSS

Fault ID

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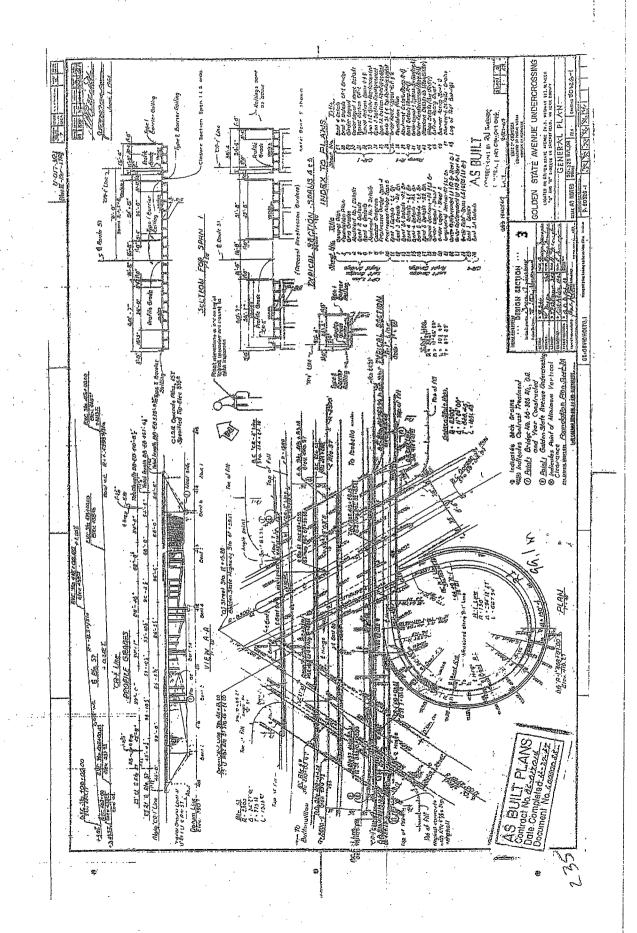
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Notes

Please note the Design ARS curve is based on the USGS 5% probability of exceedance in 50 years (975 year return period).

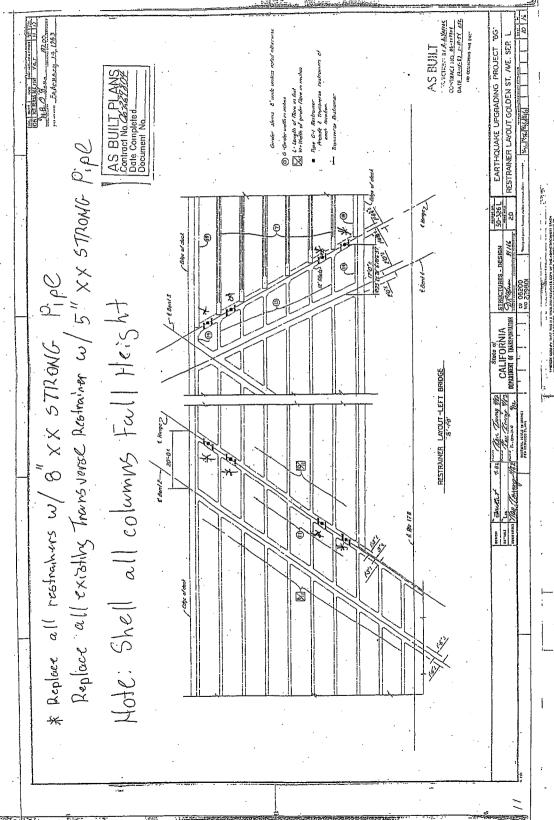
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Design Response Spectrum



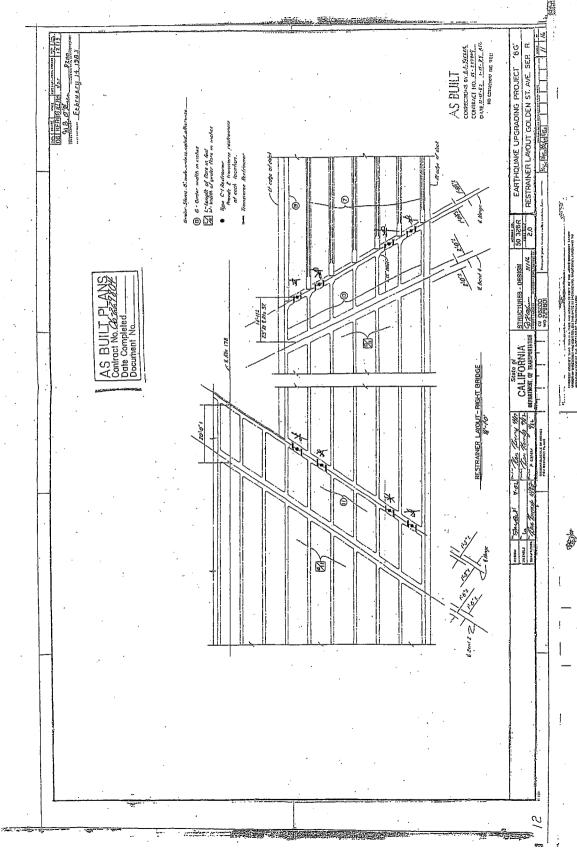
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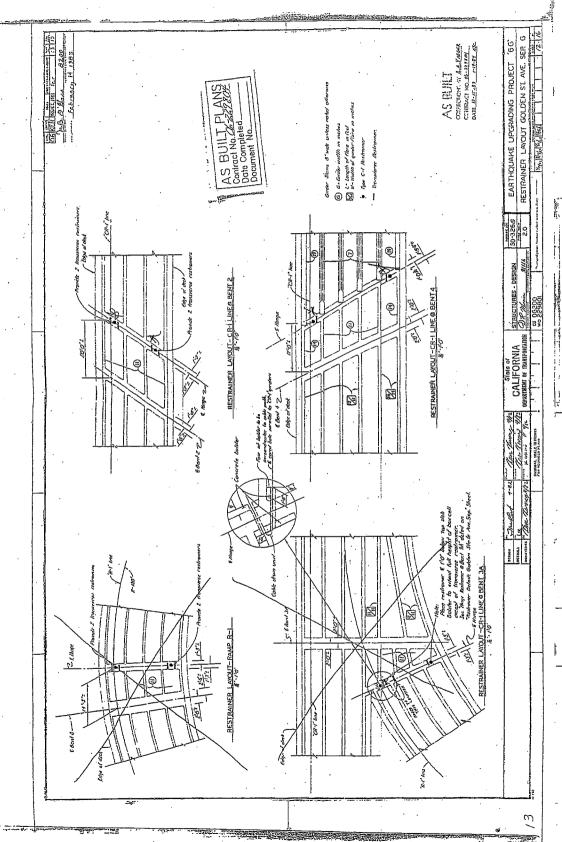
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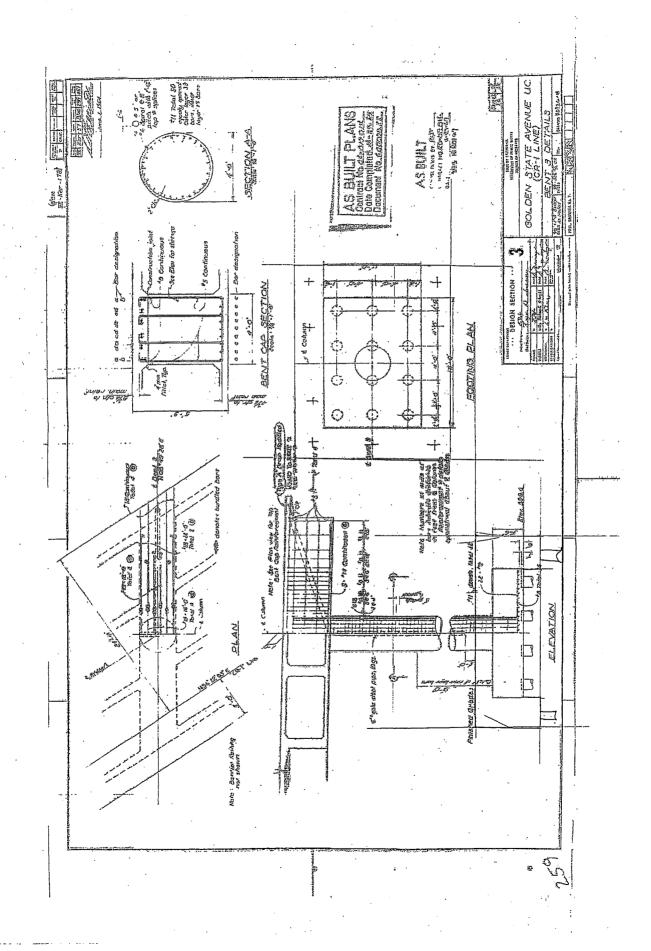
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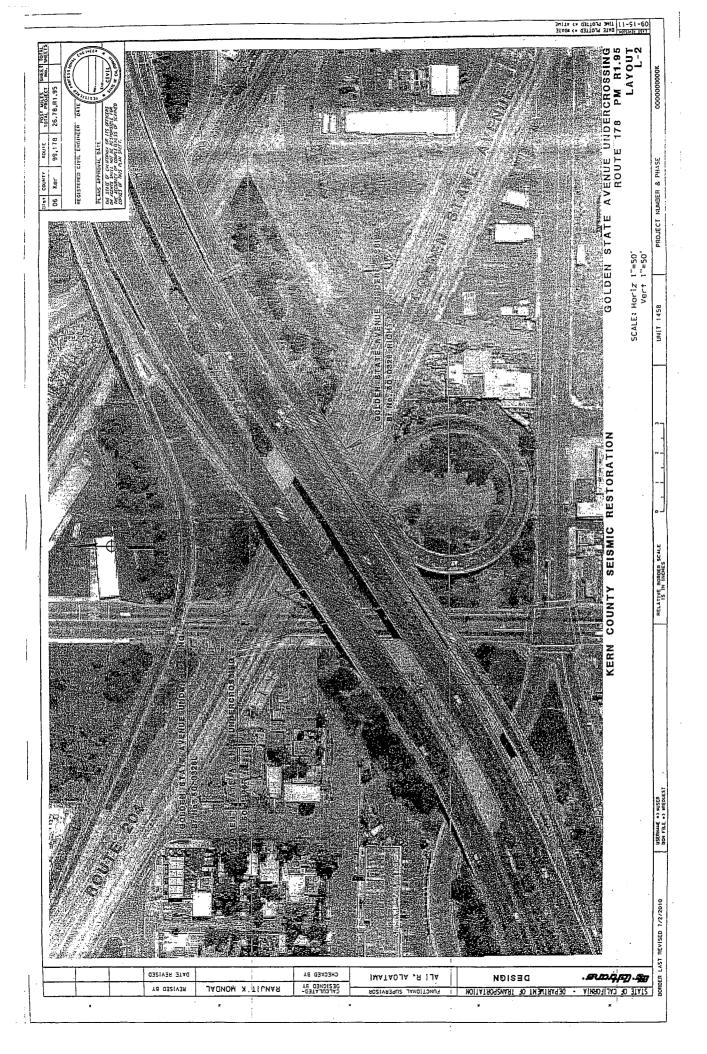




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Dist-Co-Rte: 06-Ker-99,178

PM: PM 26.78,R1.95

EA: 06-0K810K

Program Code: 20.10.201.113

PROJECT DESCRIPTION:

Limits:	In Kern County in Bakersfiel Separation	d at Airport Drive Overcrossing and at Golden State	Avenue	
(Scope of Work)	restrainers will be replaced winstalled on all columns, ben existing bent cap. Abutment side and bent 6 by 1'-6" on o	gate seismic deficiencies by retrofitting the bridges with pipe seat extenders, full height steel column can trace 2 of Br No. 50 0266 will be retrofitted to streng 1 will have seat extenders, bent 5 will be widened be ne side for Br No. 50 0326L/R/CR-1 Line. The footing the will be enlarged in all dimensions and additional to the content of the con	sings will be othen the y 1'-6" on each g of single	
Alternative:				
	SUMMARY	OF PROJECT COST ESTIMATE		
. •	L ROADWAY ITEMS L STRUCTURES ITEMS	Total of Sections 1 - 10 shown above		2,172,869
	S	SUBTOTAL CONSTRUCTION COSTS	\$6	5,116,869
ТОТА	L RIGHT OF WAY ITEMS	(Not Escalated)	\$	36,930
	TOTAL F	PROJECT CAPITAL OUTLAY COSTS	\$ 6	,153,799
Reviewed by District Program Manage	r:		-	
		(Signature)	(D	ate)
Approved by Project Man	ager:	(Signature)	10 /2 - (D	z /
Phone Number:		(559) 243-3457		
			Form	n revised 12/01/09



Dist-Co-Rte: 06-Ker-99,178

PM: PM 26.78,R1.95

EA: 06-0K810K

Program Code: 20.10.201.113

I. ROADWAY ITEMS

Section 1 - Earthwork	Quantity	Unit	Unit Price	Item Cost	Section Cost
Roadway Excavation		CY	\$0	<u>\$0</u>	
Imported Borrow		CY	\$0	<u>\$0</u>	
Clearing & Grubbing	1	LS	\$25,000	<u>\$25,000</u>	
Develop Water Supply	0	LS	\$0	<u>\$0</u>	
Top Soil Reapplication	4		\$0	<u>\$0</u>	
Stepped Slopes and Slope			\$0	<u>\$0</u>	
Rounding (Contour Grading)			\$0	<u>\$0</u>	
, to an an ag () to an a g			\$0	<u>\$0</u>	
			Subto	tal Earthwork: _	\$25,000
Section 2 - Pavement Structural Section*					
PCC Pvmt Depth	0	CY	<u>\$0</u>	<u>\$0</u>	
PCC Pvmt Depth	0	CY	\$0	<u>\$0</u>	
Asphalt Concrete	0	Ton	\$0	<u>\$0</u>	
Lean Concrete Base	0	CY	\$0	<u>\$0</u>	
Cement-Treated Base	0	CY	\$0	<u>\$0</u>	
Aggregate Base	0	CY	<u>\$0</u>	<u>\$0</u>	
Treated Permeable Base	0	CY	\$0	<u>\$0</u>	
Aggregate Subbase	0	CY	\$0	<u>\$0</u>	
Pavement Reinforcing Fabric	0	SF	\$0	<u>\$0</u>	
Edge Drains	0	FT	\$0	<u>\$0</u>	
· ·				<u>\$0</u>	
		Subto	tal Pavement Struc	tural Section: _	\$0
Section 3 - Drainage					
Large Drainage Facilities	0	LS	\$0	<u>\$0</u>	
Storm Drains	0	LS	\$0	<u>\$0</u>	
Pumping Plants	0	LS	\$0	<u>\$0</u>	
Project Drainage	0	LS	\$0	<u>\$0</u>	
				<u>\$0</u>	
			Subto	otal Drainage: _	\$0

^{*} Reference sketch showing typical pavement structural section elements of the roadway. Include (if available) T.I., R-Value and date when tests were performed.



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Section 4 - Specialty Items	Quantity	Unit	<u>Unit Price</u>	<u>Item Cost</u>	Section Cost
Retaining Walls	0	SF	\$0	<u>\$0</u>	
Noise Barriers	0	EA	\$0	<u>\$0</u>	
Remove /construct MBGR	400	<u>LF</u>	\$50	\$20,000	
Transition Railing (Type WB)	3	<u>EA</u>	\$4,500	<u>\$13,500</u>	
Alternate Flared Terminal System	2	<u>EA</u>	\$3,000	<u>\$6,000</u>	
End Anchor Assembly (Type SFT)	2	EA	\$4,000	<u>\$8,000</u>	
Remove/Reconstruct Concrete Barrier	140	LF	\$60	<u>\$8,400</u>	
Remove/Reconstruct concrete barrier (Type E)	160	<u>LF</u>	\$200	\$32,000	
Remove/Reconstruct AC dike	800	LF	\$8	<u>\$6,400</u>	
Water Pollution Control	1	LS	\$160,000	<u>\$160,000</u>	
Hazardous Waste Investigation and/or Mitigation Work	1	LS	\$15,000	<u>\$15,000</u>	
Lead Compliance Plan	1	LS	\$3,000	\$3,000	
Swallows Exclusion	1	LS	\$200,000	\$200,000	
Resident Engineer Office Space	1	LS	\$50,000	\$50,000	
				<u>\$0</u>	•
			Subtotal Spe	cialty Items: _	\$522,300
Section 5 - Traffic Items					
Lighting	0	LS	\$0	<u>\$0</u>	
Traffic Delineation Items	0	LS	\$0	<u>\$0</u>	
Traffic Signals	0	LS	\$0	<u>\$0</u>	
Overhead Sign Structures	0	<u>EA</u>	\$0	<u>\$0</u>	
Temporary K-Rail	1	LS	\$35,000	\$35,000	
Crash Cushion	1	LS	\$24,000	\$24,000	
Construction Area Signs	1	LS	\$4,000	<u>\$4,000</u>	
Channelizers	1	LS	\$1,000	\$1,000	
Maintain Traffic	1	LS	\$90,000	\$90,000	
Traffic Control Systems	1	LS	\$160,000	<u>\$160,000</u>	
Transportation Management Plan	1_	LS	\$411,000	<u>\$411,000</u>	
Temporary Detection System	<u>O</u> .	LS	\$0	<u>\$0</u>	
Staging	0	LS	\$0	<u>\$0</u>	
				<u>\$0</u>	
			Subtotal T	raffic Items: _	\$725,000



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II. ROADSIDE ITEMS

Section 6 Planting and Irrigation	Quantity	Unit_	<u>Unit Price</u>	Item Cost	Section Cost
Highway Planting	0	LS	\$0	<u>\$0</u>	
Replacement Planting	1	LS	\$75,000	<u>\$75,000</u>	
Maintain Existing Irrigation	1	LS	\$10,000	<u>\$10,000</u>	
Relocate Existing Irrigation	0	LS	\$0	<u>\$0</u>	
Facilities	0	LS	\$0	<u>\$0</u>	
Irrigation Crossovers	0	LS	\$0	<u>\$0</u>	
				<u>\$0</u>	
		Subtotal	Planting and Irrig	ation Section: _	\$85,000
			6		
Section 7: Roadside Management	<u>Quantity</u>	Unit	<u>Unit Price</u>	Item Cost	Section Cost
and Safety Section					
Vegetation Control Treatments	0	LS	\$0	<u>\$0</u>	
Gore Area Pavement	0	LS	\$0	<u>\$0</u>	
Pavement beyond the gore area	0	LS	\$0	<u>\$0</u>	
Minor Concrete (Island Paving)	5	CY	\$1,000	<u>\$5,000</u>	
Erosion Control	0	LS	\$0	<u>\$0</u>	
Slope Protection	0	LS	\$0	<u>\$0</u>	
Side Slopes/Embankment Slopes	0	LS	\$0	<u>\$0</u>	
Maintenance Vehicle Pull outs Off-freeway Access (gates, stairways, etc.) Roadside Facilities (Vista					
Points, Transit, Park & Ride, etc)	0	LS	\$0	<u>\$0</u>	
Relocating roadsice	•	1.0	# 0	# 0	
facilities/features	0	LS	<u>\$0</u>	<u>\$0</u>	
				<u>\$0</u>	
	Subtot	al Roadside Ma	nagement and S	afety Section: _	\$5,000
	•		TOTAL OFOT	10NC 1 thm, 7	#4 200 200
			TOTAL SECT		\$1,362,300

NOTE:Extra lines are provided for items not listed; use additional lines as appropriate.



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III. ROADWAY ADDITIONS

Section 8 - Minor Items

Section 8 - Minor Items	-]	Item Cost	Section Cost
(Subtotal Sections 1 thru 7)		\$1,362,300	X	<u>0.10</u> (5 to 10%)	= :	\$136,230	
<u>Section 9 - Roadway M</u>	obilization_			ТОТ	AL Min	or Items: _	\$136,230
(Subtotal Sections 1 thru 8)		\$1,498,530	x	<u>0.10</u> (10%)	= 3	\$149,853	
Section 10 - Supplemer	ntal Work & Contingencies		TO	TAL Roadwa	ay Mot	oilization: _	\$149,853
Supplemental Work							
(Subtotal Sections 1 thru 8)		\$1,498,530	X	<u>0.10</u> (5 to 10%)	= 3	\$149,853	
Contingencies				(3 to 10 70)			
(Subtotal Sections 1 thru 8)		\$1,498,530	Х	<u>0.25</u> (**%)	= 9	\$374,633	
		Supp	olemer	ntal Work & (Conting	gencies: _	\$524,486
		TOTAL ROADWAY	ADD	ITIONS Sect	tions 8	thru 10:	\$810,569
			7	TOTAL ROA	.DWAY	TITEMS:	\$2,172,869
			(8	Subtotal Sec	tions 1	thru 10)	
Estimate Prepared by:		anjit Mondal or Type Name)		Phone: <u>{</u>	559-24	3-3596	10/12/11 (Date)
Estimate Checked by:		o Leyva		Phone: 5	559-243	3-3571	10/12/11
	(Print	or Type Name)					(Date)

^{**}Use appropriate percentage per PDPM, Part 3 Chapter 20. http://www.dot.ca.gov/hg/oppd/pdpm/pdpmn.htm - pdpm



II. STRUCTURE ITEMS

(If appropriate, attach additional pages as backup)

Dist-Co-Rte: 06-Ker-99,178

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Program Code: 20.10.201.113

		STRUCTURE			
Bridge Name	No. 1	No. 2	No. 3		
Structure Type	(Br No. 50-0266)	(Br No. 50-0326)			
Width (out to out) - (ft)					
Span Length - (ft)	0	0	0		
Total Area - ft ²	0	0	0		
Footing Type (pile/spread)	0	0	0		
Cost per ft ²	0	0	0		
(incl. 10 % mobilization					
and 20 % contingency)	94 000 000	#D 044 000	\$0		
Total Cost for Structure	\$1,033,000	\$2,911,000	<u>Ф</u> О		
	SUBT	TOTAL STRUCTUR	ES ITEMS	\$3,944,000	
		m of Total Cost for S			
	`		•		
Railroad Related Costs (Not incl. in R/W Est)				<u>\$0</u>	
,			•	<u>\$0</u>	
	S	UBTOTAL RAILRO	AD ITEMS	\$0	
	TOTAL STRUCTURES ITEMS				
		n of Structures items plu		\$3,944,000	
COMMENTS:	(Sui)	Tor Structures items pi	us Italiioau items	<u>''</u>	
Estimate Prepared		m.		40/44/44	
by:	··· · Nama	Phone:		10/11/11 (Date)	
(Print or Ty	ype Name)			(Date)	



III. RIGHT OF WAY ITEMS

Dist-Co-Rte: 06-Ker-99,178

Program Code: 20.10.201.113

PM: PM 26.78,R1.95

(Escalated Value)

10/18/11

(Date)

EA: 06-0K810K

No. of years for Escalation = Current Values Rate Escalation Escalated (%) Values Factor A. Acquisition, including excess lands, damages to 5.0 1.00 \$0 remainder(s) and Goodwill B. Utility Relocation (State Share) 5.0 1.00 \$0 \$0 \$44,889 5.0 1.25 \$36,930 C. Biological Mitigation 7.0 1.00 D. Clearance/Demolition \$0 E. Title and Escrow Fees 4.0 1.20 \$44,889 TOTAL RIGHT OF WAY** ITEMS= \$36,930

Anticipated Date of Right of Way Certification: 04/01/16
(Date to which Values are Escalated)

		(Date to which Values	are Escalated)
Construction	on Contract Work Brief Description of Work		
	Right of Way Branch Cost Estimate	for Work *	\$0
	* This dollar amount is to be includ Structures Items of Work, as appr	led in the Roadway and/or	
	Right of Way Items		
COMMEN	TS:		
i			
Estimate P	repared		
by:	<u> </u>	Houa Yang	Phone: <u>559-445-6243</u>

(If appropriate, attach additional pages and backup including Right of Way Data Sheet and Environmental Mitigation and Compliance Cost Estimate Sheet).

(Print or Type Name)



Preliminary Environmental Analysis Report

Project Informat	cion					
District 6	County Ker	Route	99/178/204	Post Mile	Various	EA <u>06-0K810K</u>
Project ID#:	06-1200-0108			·····		***************************************
Project Title:	Kern Bridges S	leismic F	Restoration			
Project Manager:	Judy Aguilar				Phone #:	(559) 243-3457
Design Manager:	Ali R Algatai	ni			Phone #:	(599) 243-3475
Design Engineer:	Ranjit Monda	ıl			Phone #:	(559) 243-3596
Environmental	Kirsten Helto	n			Phone #:	<u>(559) 455-6282</u>
Manager:					_	
Environmental Pla	anner: Phong	Duong			Phone #:	(559) 455-6206

PSR Summary Statement

The anticipated environmental document for the proposed project is a Mitigated Negative Declaration/Categorical Exclusion 6004. This document level has been selected based on the potential impacts to kit fox habitat which is anticipated to be mitigated below the threshold of significance as defined by CEQA. The California Department of Transportation would act as the lead agency in the preparation of a joint NEPA/CEQA (National Environmental Policy Act/California Environmental Quality Act) environmental document. Caltrans will serve as the NEPA lead agency under its assumption of responsibility pursuant to 23 U.S. Code 327. The estimated time to obtain environmental approval is 12 months from the start of environmental studies. Assuming a start date for environmental studies of November 2011, a final environmental document would be anticipated by November 2012.

It is anticipated multiple environmental studies and reports will be required for this project including, but not limited to: Initial Site Assessment, Historic property survey report, Historical resources evaluation report, Natural Environmental Study and informal Section 7 consultation with the U.S. Fish and Wildlife Service (USFWS).

Project Description

The California Department of Transportation (Caltrans) proposes a seismic safety improvement project to address seismic deficiencies of four bridges on State Route 99, 178 and 204 in Kern County. The bridges are: Airport Dr OC (Br No 50-0266), Golden State Ave Sep (50-0326R), Golden State Ave Sep (50-0326L) and Golden State Ave Sep (50-0326F).

Purpose and Need

The purpose of this project is to improve safety by upgrading the seismic deficiencies of the following four bridges; Airport Dr OC (Br No 50-0266), Golden State Ave Sep (50-0326R), Golden State Ave Sep (50-0326L) and Golden State Ave Sep (50-0326F) on State Route 99 and State Route 178 in Kern County.

Description of Work

The proposed improvements include replacing and removing the existing C-1 restrainers with pipe seat extenders. Full height steel column casings and bent cap retrofits would be installed on all columns of the four bridges. Retrofits would be made on Bent 2 to strengthen the existing Bent Cap on bridge number 50-0266 (Airport Dr OC). In addition, at Airport Drive bridge Bent 5 will be widened by 6 inches to 1 foot on each side, and Bent 6 will be widened by 6 inches to 1 foot on one side. At bridge number 50-0326 (Golden State Avenue), the footing of single column bent at Bent 3 for "Right CR-1 Line" would be enlarged in all dimensions and additional piles installed on Golden State Ave (50-0326R) and Golden State Ave (50-0326L) to upgrade the footing capacity.

Alternatives

There are two alternatives being considered for this project. Alternative 1 is proposed to address seismic deficiencies and Alternative 2 is the "No-Build Alternative."

<u>Funding</u>	
⊠ State	⊠Federal

This project is included in the 2012 State Highway Operation and Protection Program (SHOPP) and under the 201.113 Bridge Seismic Restoration Program. A Project Scope Summary Report is needed to make the project a candidate for SHOPP funding.

Anticipated Environmental Approval

CEQA	NEPA
Categorical Exemption/Statutory Exemption	\boxtimes Categorical Exclusion (\boxtimes 6004/ \square 6005)
⊠Negative Declaration/Mitigated ND(∐Appendix G)	Finding of No Significant Impact
Environmental Impact Report	Environmental Impact Statement

Anticipated Environmental Schedule

Total Time for Environmental Approval	12 months
Start Date	November 1, 2011
Begin Environmental	November 1, 2011
Draft Environmental Document	May 30, 2012
Final Environmental Document	September 23, 2012
PA&ED*	November 1, 2012

^{*}PA&ED is generally I month following the FED date

Assumptions and Risks

Assumptions:

- Contractor would conduct a bridge survey and conduct Aerial Deposited Lead investigation if new piles are to be drilled for bridges.
- No cultural resources or paleontological resources would be encountered.
- No right-of-way acquisition is anticipated.
- An Opportunity for Public Hearing would be required.

Risk Probability Ranking				
Ranking	Probability of Risk Event			
5	60-99%			
4	40-59%			
3	20-39%			
2	10-19%			
1	1-9%			

Risks on project scope, cost, and/or schedule:

		Evaluating I	mpact of a Thi	eat on Project	Objectives	
Τn	noact	Very Low	Low	Moderate	High	Very High
Ø)	Time	Insignificant Schedule Slippage Insignificant	Delivery Plan Milestone Delay within quarter	Delivery Plan milestone delay of one quarter	Delivery Plan milestone delay of more than 1 quarter 10-20% Cost Increase	Delivery Plan milestone dela; outside fiscal year >20% Cost Increase
ን ማ		Cost Increase	Increase	Increase	Sponsor does	Scope does no
	Scope	Scope decrease is barely noticeable	Changes in project limits or features with <5% Cost Increase	Changes in project limits or features with 5-10% Cost Increase	not agree that Scope meets the purpose and need	meet purpose and need

Percentage of cost increase is calculated based on increase of the component, not total cost of the project.

- If Caltrans cannot obtain "Not likely to adversely affect" determination, there would be a corresponding impact to the project schedule and cost. Probability of occurrence is 3, the impact to the schedule could lead to an additional 6-8 months, and the impact to cost would be moderate.
- If an additional alternative is presented that was not addressed as part of this PEAR there would be a corresponding impact to Scope, Cost and Schedule. Probability of occurrence is 1, the impact to Scope would be moderate, impact to Cost would be moderate, and impact to the schedule could lead to an additional 6-9 months.

Mitigation

Mitigation for potential hazardous waste contamination involves remediation of Asbestos Containing Material (ACM) in bridge structures, lead based paint systems, and Aerially Deposit Lead (ADL). Further studies and permits may require the need for mitigation, which would be added to the cost of the project and included in an updated Mitigation Cost Compliance Estimate Form.

Right of Way Capital (050)

- California Department of Fish and Game document review fee: \$2,044 (2011 dollars).
- Regional Water Quality Control Board Permit 401 would cost \$ 4,000.
- The preliminary estimated cost for mitigation for the San Joaquin kit fox would be \$11,000 per acre. (\$11,000 x 2 acres=\$22,000).
- U.S. Army Corps of Engineers Section 404 permit is \$1,500 per acre.
- Please note cost may vary depending on acreage evaluated from biological studies.

Construction Capital (042)

- Swallows exclusion mitigation would cost approximately \$200,000 for all four bridges.
- Lead Compliance Plan-\$3,000.
- Hazardous waste bridge survey would cost \$15,000.

Disclaimer

This report is not an environmental document. Preliminary analysis, determinations, and estimates of mitigation costs are based on the project description provided in this report. The estimates and conclusions provided are approximate and are based on cursory analysis of probable effects. This report is to provide a preliminary level of environmental analysis to supplement the Project Initiation Document. Changes in project scope, alternatives, or environmental laws will require a reevaluation of this report.

Review and Approval

I confirm that environmental cost, scope, and schedule have been satisfactorily completed and that the PEAR meets all Caltrans requirements. Also, if the project is scoped as a routine EA, complex EA, or EIS, I verify that the HQ DEA Coordinator has concurred in the Class of Action.

Approved by:

| Kelly Hold | Date: 10/12/201
| Environmental Manager | Date: 10/12/11
| Environmental Office Chief | Date: 10/13/11

Environmental Technical Reports or Studies Required

Required—requires analysis including field surveys, database searches, report, or memo to file and brief explanation in the environmental document.

Not Required-Issue is not applicable to the proposed project.

Possible Critical Path-Major issue that has the potential to drive the schedule and determine the length of time to reach PA&ED (can be more than one major issue).

	Required	Clearance Memo Received	Not Required	Possible Critical Path
Biology Endangered Species (Federal) Endangered Species (State) Species of Concern (CNPS, USFS, BLM, S, F) Wetland Delineation Natural Environment Study Biological Assessment (USFWS, NMFS, State)		Ш		
Cultural Resources ASR HRER HPSR/HRCR Screening Memo SHPO Concurrence Native American Coordination Finding of Effect Document Treatment Plan & MOA				
Hazardous Waste ISA PSI ADL Editing ssp/nssp Air Quality Analysis Hot Spot Analysis MSAT Noise Study Water Quality Community Impact Assessment Environmental Justice Growth Related Impacts Cumulative Impacts Farmland Visual Resources Scenic Resource Evaluation				
Visual Impact Assessment Floodplain Evaluation Paleontology Section 4(f) Evaluation Wild and Scenic River Consistency Geology Fopology Soils Greenhouse Emissions				

Permits Anticipated for Construction

	Required	Not Required
401 Permit Coordination (discharge into navigable waters)	\boxtimes	
404 Permit Coordination (discharge into waters of the US including wetlands)	\boxtimes	
🛛 - Nationwide		
🗌 - Individual		
1600 Permit (Streambed Alteration)	\boxtimes	
City/County Coastal Permit Coordination		\boxtimes
State Coastal Permit Coordination		\boxtimes
NPDES Coordination	\boxtimes	
US Coast Guard (Section 10)		\boxtimes
State 2081 Permit (State only incidental take of threatened or endangered species)		
	·	

Discussion of Technical Review

Biology

Biological surveys and studies are required. Potential impacts to the San Joaquin kit fox would require a Biological Assessment and consultation with mitigation under programmatic agreement. Special Provisions for migratory birds, (swallow), San Joaquin kit fox, and Environmentally Sensitive Area would be necessary. Swallow exclusion is anticipated and would cost approximately \$200,000. There are wetlands within the project limits. A Natural Environmental Study and Biological Assessment would need to be completed for an informal Section 7 Consultation. The impacts to kit fox habitat are expected to be minimal with mitigation measures. A pre-construction survey and incidental take permit from the California Department of Fish and Game will be required.

Cultural Resources

Due to the urban environment and past construction activities, it is assumed that no archaeological sites would be located within the project area. The Golden State Ave Separation (Bridge Numbers 50-0326 L, R, F) carries State Route 178 over State Route 204 and is listed on the California Historic Bridge Inventory as Category 5 rating (Ineligible for the National Register). A recent study conducted in the project area found that SR 204 was eligible for inclusion in the National Register of Historic Places. While the bridge does not contribute to the eligibility of State Route 204, the project cannot be considered for Screening in accordance with the Caltrans Section 106 PA. Based on the proposed project activities the project would have no affect on State Route 204. A Historic Property Survey Report will be prepared documenting a finding of No Historic Properties Affected.

Hazardous Waste

Hazardous waste concerns for the project include asbestos-containing materials in structures, lead-based paint systems, and aerially deposited lead contamination. Hazardous waste technical studies would include review of the bridge structures for asbestos-containing materials. An Initial Site Assessment and a Preliminary Site Investigation would be done to determine the extent of potential hazardous material contamination and to recommend proper handling and disposal of any found material.

Air Quality Analysis

The proposed project would not impact local air quality. A clearance memo was received on September 14, 2011.

Noise Study

The proposed project is not considered Type 1 under NEPA. No further analysis is necessary per the Noise memo dated September 14, 2011.

Water Quality

This project would not adversely affect the water quality in the project area per Water Quality memo dated September 14, 2011. Best Management Practices need to be selected and implemented in accordance with the Project Planning and Design Guide. National Pollutant Discharge Elimination System coordination would be required.

Community Impact Assessment

There would be no impacts to the community anticipated.

Cumulative Impacts

There are no cumulative impacts anticipated.

Farmland

There would be no farmland impacts anticipated.

Visual Resources

The proposed project would not impact visual resources. A clearance memo was received on September 14, 2011

Floodplain Evaluation

Based on the Flood Insurance Rate Map (FIRM) Community Panel Numbers 06029C 1818 E, and 06029C1819 E, the project area is in "Zone X," which is defined as areas outside the 0.2% annual chance of floodplain. The proposed project would not increase the base flood backwater elevations and does not constitute a significant floodplain encroachment. A Floodplain Evaluation Report is not required per the Floodplain memo dated September 14, 2011.

Paleontology

According to the California State University of Fresno, Department of Geology Paleontological Sensitivity Mapping Project database, the geologic units within the project limits are identified as low sensitivity for paleontological resources. Because project specific information is not available at this PEAR stage, potential impacts to paleontological resources should be re-evaluated when more project information is determined per Paleontology memo dated September 19, 2011.

Section 4(f) Evaluation

There would be no 4(f) impacts anticipated.

Wild and Scenic River Consistency

There is no wild and scenic river within the proposed project area. No further study is required.

Geology

The proposed project would not alter the existing conditions with respect to geology and soils in the vicinity of the project area. No further study is required.

Topology

The proposed project would not impact the existing conditions with respect to topology in the vicinity of the project area. No further study is required.

Soils

The proposed project would not alter the existing conditions with respect to soils in the vicinity of the project area. No further study is required.

Greenhouse Emissions

The project is not considered to be a "major project" for the consumption of energy during project construction or operation and expected to have the no potential for climate change impacts.

Permits.

• 2081, 401 Coordination and NPDES permits are required.

List of Preparers

Hazardous Waste by Susan Greenwood	9/12/2011
Biological by Primavera Parker	9/22/2011
Cultural by Kelly Hobbs	9/12/2011
Community Impact by Phong Duong	10/10/2011
Visual by Brad Cole	9/14/2011
Floodplain by Masis Kayaina	9/13/2011
Paleontology by Richard C. Stewart	9/19/2011
Preliminary Environmental Analysis Report by Phong Duong	10/12/2011

Part	PA&ED 10/10/2012				2011		_					2012					
FireDay Control Cont	Task	Start	Finish				_	Feb	March /	April : N					Oct		Dec
MA MA MA MA MA MA MA MA	Design Mapping (COMPLETED)						L			-	<u> </u>					<u> </u>	
Interpret Inte	Perform General Env. Studies	10/15/11		<u>. </u>			İ		<u> </u>								
NA NA NA NA NA NA NA NA	Visual Impact Analysis	¥.			ļ				- -								
Ev. NA NA NA NA NA NA NA N	Ouality	Y Y												-			
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ses Studies NA Info/I/I g3/30/12 Info/I/I g3/30	Locaton riyer/Fricodolain Ev. Farmland	Y Y					-			- -			+				
Opinion 11/01/11 03/30/12 Exercises Ses Studies NA NA NA Sinon Report NA NA NA Finding of Effect NA NA NA Individe the native 05/18/12 05/18/12 05/18/12 Opioi/1/2 06/1/12 06/1/12 07/20/12 NA Indicator 06/1/12 06/1/12 06/1/12 06/1/12 Indicator 06/1/12 06/1/12 06/1/12 06/1/	Relocation Study	NA NA										I.					
11/01/11 03/30/12 04/01/12 09/30/12 04/01/12 09/30/12 04/01/12 09/30/12 04/01/12 09/30/12 04/01/12 09/30/12 04/01/12 09/30/12 04/01/12 04/01/12 04/01/12 04/30/12	Perform Biology Studies	2	02/00/20		3			Constant	To a second								
Acidies And Report NA NA Report NA NA NA NA NA NA NA NA NA N	NES BA	11/01/11	03/30/12	:		1000			A CONTRACTOR		·				٠.		
NA NA NA NA NA NA NA NA	Programmatic Biological Opinion	04/01/12	09/30/12					<u> </u>	281						藏	. : :	
NA NA NA NA NA NA NA NA			-						 		<u>.</u>		<u>:</u>				
NA NA NA NA NA NA NA NA	Perform Cultural Resources Studies Phase Archy Study	NA					-										
Second (HRER) 1/10/1/1 01/30/12 Second Se	Prepare Archaeological Survey Report	Ϋ́						<u>.</u>					7				
g of Effect NA 11/01/11 01/30/12 (STEWN) 11/01/11 01/30/12 (STEWN) 11/01/11 01/30/12 (STEWN) 11/01/12 01/30/12 05/01/12	Prepare APE Mapping	Ν															
g of Effect NA NA NA NA NA NA NA NA NA N	Historic Resource Evaluation Report (HRER)	11/01/11	01/30/12					:									:
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06/01/12 06/30/12 07/30/12 07/30/12 09/01/12 09/01/12 09/23/12 09/23/12 10/01/12 10/01/12 10/01/12	Circulate DED	05/01/12				 !		; ;		(25).							
09/07/12 9/31/2012 09/07/12 09/23/12 10/07/12 11/07/12	Notice of Opportunity	06/01/12	- 4				_			 	2		:				
09/01/12 09/01/12 10/01/12	Kespond to Public Comments	21/10//0	71/05//0				1										
09/01/12 09/01/12 10/01/12	Prepare and Approve Final ED				-:									:	:		
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	PAKED	Z1/t0/01		: : 						••••	• • • •				1	ι Α.	

Revised: 10/14/2011

Central Region Environmental Division Mitigation Cost Compliance Estimate (MCCE)

MCCE is for: PEAR	 Option and a first of a first open for the first says 	
Dist - Co - Rte - PM: <u>06-KER-99-26.7</u>		EA: <u>06-0K810_</u>
Project Name: Kern County Seismic Restora	tion A	Alternative #:
Project Description: SEISMIC RESTORATION	The second secon	(If applicable)
nvironmental Senior: <u>Kirsten Helton</u>		one Number: <u>559-445-6282</u>
Design Manager:		one Number:
Design Engineer: Ranjit Mondal		one Number: <u>559-243-3596</u>
Project Manager: <u>Judy Aguilar</u>	Pho	one Number: <u>(559) 243-3457</u>
Date: <u>9/26/2011</u>		:
MCCE Prepared By: Phong Duong	Pho	one Number: 559-445-6206
。是1966年,可是在1965年的1967年的日本的研究的企业中的基础的工作的基础的企业的企业,但是1966年的工作中的基础的企业和企业的基础的企业。 1966年,并1967年的基础的企业是1967年的工作的企业的企业的企业的企业的企业的企业的企业的企业的企业的企业的企业的企业的企业的	Right of Way Capital (Prior to Construction 050-\$'s)	
Archaeological		
Architectural History		
Paleontology		\$0
Hazardous Waste		\$15,000
Air Emissions		
Biological		
Mitigation parcels (acre/dollars)	/	
Mitigation/Bank Credits (acre/dollars)	/ \$22,000	
Monitoring		
Permit Fees		
DFG Fee	\$2,044	
401	\$4,000	
	\$1,500	
404 Nationwide	Φ1,000	
Lead compliance plan		\$3,000
Swallows Exclusion		\$200,000
Other		
TOTAL	\$29,544	\$218,000
Approved By:	Date:	10/12/11
Environmental Branch C	nijest ,	10 - 14-2011

This form is completed as part of the PEAR for all candidate projects, at completion of the Draft Environmental Document, and during preparation of the PS&E
This form is to be completed for all SHOPP, STIP, and Minor A & B projects (even those without mitigation).
Include all costs necessary to complete the commitment including: capital outlay (non-staffing support costs); cost of right-of-way or easements; long-term monitoring and reporting by consultants during the construction phase; and any follow-up maintenance post construction.
Timing of Enhancement/Endowment funds will depend on which agency is requiring the mitigation. Funds may need to be available as 050 or as 042

State of California

Business, Transportation and Housing Agency

Memorandum

To: JUDY AGUILAR Date: 10/24/2011

File: CD 06 EA 0K810K

Alt Rev1

Attn RANJITK MONDAL

RTE 99 Co KER

DESCRIPTION:

SEISMIC RESTORATION

From: Department of Transportation

Division of Right of Way Central Region

Subject: RIGHT OF WAY DATA SHEET

We have completed an estimate of the right of way costs for the above-referenced project based on the Right of Way Data Sheet Request Form dated 10/17/2011

The following assumptions and limiting conditions were identified:

Appraisal

Utility

Per the Right of Way Data Sheet Request Form submitted by Project Engineer, Ranjit Mondal, the work consists of existing columns to be retrofitted by full height steel casings around them, one column footing is to be enlarged in all dimensions by piling. The work will be completed within existing right of way underneath the bridge deck. There is no utility relocation conflict and no potholing is required. A utility permit search was not completed at the time of the request.

Right of Way Lead Time will require a minimum of 1 months after we receive Certified Appraisal Maps and/or Utility Conflict Plans, obtained necessary environmental clearance and applicable freeway agreements have been approved.

NICHOLAS G DUMAS

Assistant Region Division Chief, Right of Way

(559) 445-6195

Page 1 of 3

EA: 06-0K810K

ALT: Rev1

CO/RTE/PM-PM (Rte 1 and Rte 2): KER/99/26.7- & //-

Request Date: 10/17/2011 Revised Date: 10/24/2011

Right Of Way Cost Estimate	Current Year 2012	Contingency Rate	Right of Way Escalation Rate	Escalated Year 2016
Acquisition:	\$0	25%	5%	\$0
Mitigation:	\$36,930	25%	5%	\$44,889
State Share of Utilities:	\$0	25%	5%	\$0
Expert Witness:	\$0	25%	5%	\$0
Relocation Assistance:	\$0	25%	5%	\$0
Demolition and Clearance:	\$0	25%	5%	\$0
Title and Escrow:	\$0	25%	5%	\$0
Ad Signs:	\$0	25%	5%	\$0
Total Current Value: If RW Cost Est fields are blank, Costs = \$0	\$36,930	1		\$44,889

Estimated Construction Contract Work (CCW):

0 R/W LEAD TIME/Mo.

Cost Break Down

Pot Hole

Mitigation

Land Bank

0 22,000

Permit Fee 7,544

Parcel Data

# of Parcel Type X:			
# of Parcel Type A: less than \$10,000 non-complex	0		
# of Parcel Type B: more than \$10,000 non-complex	0		-
# of Parcel Type C: complex, special valuation	0		
# of Parcel Type D: most complex and time consuming	0	# of Duals Needed:	0
Totals:	0	Totals:	0

of Excess Parcels:

0

Misc R/W Work

# of RAP Displacements:	0
# of Clearance/Demos:	0
# of Const Permits:	0
# of Condemnations:	0

RR Involvement

Railroad Facilities or Right of Way Affected?	
Const/Maint Agreement:	
Service Contract:	
Right of Entry:	
Clauses:	
Estimated Lead-time	

Utilities

Onnnes	
U4-1: Owner Expense	
U4-2: State Expense, Conventional no Fed Aid	
U4-3: State Expense, Freeway no Fed Aid	
U4-4: State Expense, both with Fed Aid	
U5-7: Utility verification, no relocation/potholing	
U5-8: Utility verification, w/ some relocation/potholing	
U5-9: Utility verifications, relocation/potholing required	

EA: 06-0K810K ALT: Rev1			
1	Parcel Area		
Total R/W Required:	0		
Total Excess Area:			
General Description of R/W and Excess L parcels, etc.):	ands Required (zoning, use	, major improvements, critica	l or sensitive
General Description of Utility Involvement The project proposes Bridge Seismic Restora	t: ation in Kern County on State	Routes 99 and 178 at PM 26.78	and R1.95.
Is there a significant effect on assessed va	aluation:	No	
Were any previously unidentified sites with	hazardous waste or material	found:	No
Are RAP displacements required:	No		
# of single family: # of muliti-	-family: # of	business/nonprofit:	# of farms:
Sufficient replacement housing will be ava	ilable without last resort hous	ing:	
Are material borrow or disposal sites requi	red:	No	
Are there potential relinquishments or aba	ndonments:	No	
Are there any existing or potential airspace	e sites:	No	
Are environmental mitigation parcels requi	red:	No	
Data for evaluation provided by	:		
Estimator:	H Yang		10/18/2011
Railroad Liaison Agent:			

Date

ENTERED PMCS

10/24/2011

Utiltiy Relocation Coordinator:

BY: H Yang

Stephanie Rendon-Fuentes

I have personally reviewed this Right of Way Sheet and all supporting information. I find this Data Sheet complete and current, subject to the limiting conditions set forth.

NICHOLAS G DUMAS Assistant Region Division Chief, Right of Way

10/18/2011

Department of Transportation District 6

TRANSPORTATION MANAGEMENT PLAN DATA SHEET

06-Ker 99,178-PM 26.78,R1.95

KERN COUNTY SEISMIC RESTORATION

PROJECT NUMBER: 0612000108-K

October 10, 2011

Prepared For:

ALI ALQATAMI, Design Senior

Office of Design I, Branch Z

Prepared By:

FLORENCIA ALLENGER

Concurred By:

Approved By:

BENJAMIN C. CAMARENA

District 6 – District Traffic Manager

OSE FERNANDEZ, JR., P.E

District 6 – TMP Manager

This Transportation Management Plan (TMP) data sheet is prepared in response to a request from Office of Design I, Branch Z dated October 6, 2011.

Attached is the TMP Data Sheet for the above referenced project. Per Deputy Directive 60, TMP must be considered at the early stage of all projects and activities performed on the State Highway System. The following items shall be included in the project initiation document (PID):

- 1) The TMP Data Sheet shall be attached to the project initiation document (PID).
- 2) Any costs associated with the traffic impact mitigation measures listed in the TMP Data Sheet shall be included in the PID estimate.
- 3) The following statements shall be included in the body of the PID:

"Preliminary traffic impacts and mitigation for this project have been outlined in the attached Transportation Management Plan Data Sheet (TMP Data Sheet). Costs associated with the traffic impact mitigation measures listed in the TMP Data Sheet have been included in this documents estimate."

Project No. 0612000108-K TMP Data Sheet Design Senior: Ali Alqatami

Cty/Rte/PM: Ker 99,178-PM 26.78,R1.95 Office of Design I, Branch Z

Page 2 of 2

"A TMP for this project is required and should be requested when the design is complete enough to determine specific traffic impacts, but yet early enough to make design changes/additions required for traffic mitigation."

"Lane closure charts and detailed TMP will be provided during PS&E stage."

"Lane closures are not allowed when the traffic volume is beyond the capacity of the remaining lanes. Nighttime work outside peak hours is anticipated for this project."

If you have any questions, please contact me at 559-444-2492.

Attachments:

- TMP Data Sheet

Date: October 10, 2011

DISTRICT 6 - TRANSPORTATION MANAGEMENT PLAN

DATA SHEET

(TMP Elements and Costs)

KER

99,178

PM

CO/RTE/PM

.26:78;R1:95

110 Working Days

PROJ. NO.

:0612000108-K

	PROJECT NAME	Kern County Seismic Restoration
	PROJECT LIMIT	In Kern County in Bakersfield at Golden State Avenue Undercrossing and at Airport Drive Overcrossing
PRO	JECT DESCRIPTION	Retrofit existing bridge overcrossings
<i>A</i>)	The project includes the for (Check all that applicable t	llowing: ype of facility closures.)
	Highway or Freeway Lanes Highway or Freeway Should Freeway Connectors	lers Freeway Off-ramps Local Streets
B)		strategies that can restore existing number of lanes? Yes (Check all applicable strategies.)
	Temporary Roadway Wider Structure Involvem Lane Restriping (Temporary Roadway Realignment (Det Median and/or Right Should Use of HOV lane as Tempo Staging Alternatives (Explain	ent? Yes Yes No (If yes, notify Project Manager) y narrow lane widths) our around work area) der Utilization rary Mixed Flow Lane
<i>C</i>)	Calculated Delay (To be performed if construe or on all projects along Inter	ction strategies in Item B do not mitigate congestion resulting from Item A state 5 and Route 99)
1. 2. 3. 4.	Estimated Maximum Individual Existing or Acceptable Individual Vehicl Estimated Individual Vehicl Estimate Delay Cost (Most Extended Weekend Weekly (7 days) Estimated Duration of Projet Cost of Construction Related	vidual Vehicle Delay minutes e Delay Requiring Mitigation Applicable) I Closure ct Related Delays minutes mi

TMP Estimates based on X-Number of Working Days requiring Lane/Shoulder/Ramp/Freeway/Highway Closures:

TMP DATASHEET

PAGE 2 OF 2

Date: Design Sen Branch:	'October 10, 2011 ior: Ali Algatami Z Office of 1	Design:			Cnty/Rte: PM: Project No:	KER 26.78,R1.95 0612000108-K	99178
D)	Preliminary TMP Elements mitigate congestion resulting	and cost: (Identify all elg from the proposed consti	ements and e ruction activ	estimated costs thities.)	hat will be	used to	
1. 	Public Information - Bees a Brochures & Mailers Press Release/Media Alerts Paid Advertisements Public Information Center/K Telephone Hotline Planned Lane Closure Webs Project Website Pubic Meetings Freight Travel Information	:		Construction St Elements Identi Two-way Traffic Reversible Lanes Ramp/Connector Night Work Extended Weeke Ped/Bicycle Acc Maintain Busines A + B Bidding nnovative Const	fied on Ite c On One S s Closure and Work ess Improvess Access	em B) lide vements	to See mote
2.	Motorist Information Stra Traffic Radio Announcemen Fixed CMS Portable CMS BEES 128650	its S		Coordination w/ Speed Limit Red Craffic Screens	uction	t. Site	\$10 2 2 2 2 3 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4
	Temporary Motorist Information Ground Mounted Signs (Detail Dynamic Speed Message Signification Advisory Radio CT Hwy Infom. Network (C.	ation Signs our) gn		Demand Manag HOV Lane/Ramp Variable Work H Telecommuting Truck/Heavy Vel Rideshare Promo	os Iours hicle Restr	ictions	
3.	Incident Management Transportation Management Traffic Management Team (Intelligent Transportation Sy Traff. Surveillance (Loop & Helicopter Surveillance	TMT) vstems		Ramp Metering Transit Incentive Shuttle Services Ridesharing/Carp Park & Ride Prop	oooling Inc	entives	
4.	Tow/Freeway COZEEP BEES 066062 Construction Strategies (In	\$350 <u>400</u>		Alternative Rou Off-site Detours/ Signal Timing/Co Cemporary Traff	Use of Alt. oord. Impr	. Rtes	
	Elements Identified on Iter Lane Requirement Chart Construction Staging Traffic Handling Plans Full Facility Closures	n B)		Signal Retiming Street/Intersections Furn Restrictions Parking Restrictions	ons	ments	
	Local Road Closures Lane Modifications One-Way Reversing Operati	on	$A \square = A$	Other Consider: Application of N Other		logies	
PROJEC	CT NOTES: t dollar values used. Inflation wa	s not factored into the estima		OTAL ESTIMA	ATED CO	ST OF TMI	\$411,000
 There : Traffic Portable require COZE 	are no noise restrictions / morator Control/Maintain Traffic costs where the CMS specified for this project and for other purposes should be in EP specified for this project by the EP required for other purposes should be in EP required for other purposes should be in the project by the proposes of the purposes should be in the purpose of the purposes should be in the purpose of the purposes should be in the purpose of the	riums for night work. vas not provided. Please cons by this estimate is designed to cluded under other specification is estimate is designated for could be included under othe	fult with the Congestion tions. congestion rear repectification	relief as outlined by is.	DD-60.	Poltable Civio	
if abon	ges are required during construct User Cost will be calculated du	ion to respond to excessive I	evels of conge	estion.			
	PREPARED BY:	OFFICE OF TRAF				DATE: October 10, 2	2011

Florencia Allenger

		Dist-Count	y-Rout	e:	06-Ker-99,17	8	
		Post Mile I	Limits:		PM 26.78.R:	1.95	
		Project Typ	oe:		SEISMIC RE	TROFIT	
		Project ID	(or EA)	<u> </u>	061200010	8 (EA: 06-0K	310K)
	/////	Program lo	dentific	ation:	20.10.201	.113	
*ecquisic during		Phase:	\boxtimes	PID			
				PA/ED			
ے	ter Quality Control Board(s)						
Regional Wat	er Quality Control Boa	rd(s) <u>CENTRAL VA</u>	LLEY R	EGION (5F)		
1.	Is the project requir	ed to consider incorpo	orating	Treatm	ent BMPs?	Yes □	No ⊠
2.						Yes □	No ⊠
3.			e of so	il and no	ot qualify for		4
						Yes □	No ⊠
4.		tentially create perma	inent v	/ater qu	ality	Yes □	No ⊠
5.	Does the project re-	quire a notification of ι	ADL re	use		Yes □	No ⊠
Separate D	ewatering Permit (if y		Y	es]	Permit #		No 🛛
Erosivity Wa	aiver])ate:		NO 🔯
Licensed Pe -upon which	erson. The Licensed I recommendations, o	Person attests to the tended	echnic	al infor	mation contai	ned herein a	and the data
		Dula	_				10/24/2011
	Ranji	t Mondal, Registered	Projec	t Engine	er		Date
[Stamp Requir	comp \[\sum_{\text{red for PS&E}} \]	e reviewed the stormwolete, current and accumulate	urate:	<u> </u>		2	report to be 0 -25-204 Date



Airport Dr & Golden St Ave UC RETROFIT

SIGN UP SHEET

PDT MEETING DATE: 10/05/2011
06-0K810 Time: 11:30 AM

NAME	DIVISION	BRANCH	TELEPHONE
1. Gloria Leges Gut	COES STr. Dexien	- Branch 6	916(227-8080)
2 David Alvarez	Gr Design	#6	(9:16) 277-8511
3GED LEYVA	DESIGN 4	BEANOH Z	(559) 243 -3571
4. Ranjit K Mondal	Design	Branch-z	(559)2H3-3596
5. LES INAGAKI	STR CONSTR	OSC-Bakersfld	(661)391-4761
6. HISHAMA AUNATOWIR	1. A. C. Carrier, Carrier, 1980年1984年1984年1984年1984年1984年1984年1984年1984	Bakersfeld	(661)3.91-474
7. Phong Duony	DG Env.	Fresno (554) 445-6206
9.			
10.			
12.			A
13.			
14.			
15.			
16.			
17.			

CENTRAL REGION CONSTRUCTIBILITY REVIEW MEETING ATTENDANCE FORM

CO-RTE-PM Ker-99,178-PM 26.78,R1.95

REVIEW TYPE PID

DATE 10/24/2011

DISTRICT-EA 06-0K810K (EFIS: 0612000108)

SENIOR Ali R Algatami

SIGNATURE	REVIEWER DEPARTMENT	INVITEE NAME	Returned Checklist	Had Comments	No s Comment	Design s Responde
O SIGNATURE	Project Management	Judy Aguilar				
101111111	Project Development	Ali R Alqatami				
A STATE OF THE STA	Traffic Ops/Traffic Safety	Albert Lee				
	Traffic Management	Benjamin Camarena				
	Traffic Design	Mohammed Qatami				
	Traffic Electrical Design	Ali Bakhdoud				
	Electrical Systems	Jose DeAlba				
	District O.E.	Rochelle Simms				
	Construction Estimates	Doug Morrison				
	Landscape Architecture	Elbert Cox				
	Material Engineering	Ted Mooradian				
	Geotechnical	Quiang Huang				
	Environmental	Susan Schilder				
/	Maintenance	Bill Moses				
Jakur	Maintenance	Sam Katich				
	Hazardous Waste	Juergen Vespermann				
Ath	Hazardous waste Tomy HARMOUCHE Hydraulics	Sam Wong				
Const distan	Right of Way & Utilities	Dan Pantoja				
Transition of the state of the	Surveys	Giana Cardoza				
	Planning	Steven J McDonald				
	HQ Design Coordinator	Ken Cozad				
	D6 Design Reviewer	Mike Janzen				
	Structures - HQ Liaison	Michael Downs				
En Inageli	Structures-Construction	Les Inagaki				
May la Potra H	Construction 52	John Borguez				
1	Construction	Wendy O'Halloran				
Emmanuel Evaile	Storm Water	Marissa Nishikawa				
Ina Hadi Sudarmo	pp	Lana Havirudon				

Form last revised September 7, 2004 PJD Technical Support Branch / Rantin K Minude

Docinin

Ranit K Mondal ATTACHMENT-J

Project Risk Register

ГТ			<u>-</u> -	· ·		Project Name:	Kern County Seismic Restoration	n	Project Manager:	Judy Aguilar						Date Created:	Last Updated:
	DIST	- EA	0	6-0K8	310	Co - Rte - PM:	Kern-99-26.7, Ker 178 R1.95		Telephone:	Telephone: (559) 243-3457						09/27/11	09/27/11
TEM	1D#	Status	Threat / Opport-unity	Category	Date Risk Identified	Risk Discription	Root Causes	Primary Objective	Overall Risk Rating	Cost/timelimpact/Value	Risk Owner	Risk Trigger	Strategy		Adjusted Cost/Time	WBS Item	Status Date and Review Comments
-	(a)	(b)	(c)	(d)	(e)	(f)	(g)	(h)	Design and the second section of the second section of		(k)	(1)	(m)	(n)	(0)	and the state of t	(U)
1	06-0K810-01	Active	Iliroat	ENV	09/16/11	Endagered species mitigation	Kit fox issue	TIME	Probability 5=Very High (60-99%) Impact 16 =Very High	2 years	Kirsten Helton (559) 445-6282 Kirsten Helton@dot.ca.gov	- Found kit fox dens	MITIGATE	Consult with F&WS and Fish and Game		165 PERFORM ENVIRONMENTAL STUDIES AND PREPARE DRAFT ENVIRONMENTAL DOCUMENT □175 and 180	
districti	energy and a second		State Secretary	atores to be a second			and the state of t	er an kommune egyptek a likterian ye firsin kund i lilifan i kurumin	Probablility	зы протоку подраждения в предости под принять предости в принять в предости в принять в предости в принять в предости в п	Kirsten Helton	 Objection on the Conference of the	Marie Control of the				
2	06-0K810-02	Active	Threat	ENV	09/16/11	Historical Property	Historic Highway	TIME	3=Med (20-39%) Med	1 year	(559) 445-6282	Route 204 potentially eligible for National Register	AVOID	Consult with SHPO		165 PERFORM ENVIRONMENTAL STUDIES AND PREPARE DRAFT ENVIRONMENTAL DOCUMENT	
									4 =Med		Kirsten Helton@dot.ca.gov		te de arrodo estado de forta de	the time the state of the state	The specific and the second	The state of the s	Samuel and the second of the s
3	06-0K810-03	Active	in the second se	РМ	09/16/11	Pressure to deliver project on an accelerated schedule	Cost, Scope, Schedule	QUALITY	Probablility 3=Med (20-39%) Med	The second secon	Judy Aguilar (559) 243-3457	- Will reevaluate during PS&E	ACCEPT	will work with project team		250 PREPARE FINAL STRUCTURES PS&E PACKAGE	
2002	niconstant being on Edition in Section 19			NEW YORK OF THE SECTION	Campaganinas Sactor sincini si s	Englished with the second seco		one, with the problem of the second	Impact 4 =Med Probability	Control of the Contro	Judy Aquilar@dot.ca.gov Kirsten Helton	They are the controlled to the party of the controlled to the cont	Security Company of Company of the	ক্ষান্ত বিশ্ব ক্ষামন্ত্ৰী ক্ষামন ক্ষামন ক্ষামন কৰা বিশ্ব কৰা ক্ষামন কৰা বিশ্ব কৰা ক্ষামন কৰা বিশ্ব কৰা ক্ষামন ক	e same partition and the same of the same	175 CIRCULATE	and the second of the second o
4	06-0K810-04		**Chicat***	ENV	10/13/11	Need for Public Hearing	Public request hearing	TIME	3=Med (20-39%) Med Impact 4 =Med	6 months	(559) 445-6282 Kirsten Heiton@dol.ca.gov	Public request hearing	ACCEPT	Conduct Public Hearing	en voormone kan toe voorstegen voorde	DRAFT ENVIRONMENTAL DOCUMENT AND SELECT PREFERRED PROJECT ALTERNATIVE IDENTIFICATION □180	
ज्यास्त्रहरू स	ran er skrivelskere	THE PROPERTY OF THE PARTY OF THE PARTY.		See an all the second s	entropy of the second second second	The state of the s	programme to the region of the second of the	1986 1986 1986 1986 1986 1986 1986 1986	Probablility (20.30%)		Ali Alqatami						
5	06-0K810-05		Threat	DESIGN	10/24/11	Utility Conflict	Permit search needed	TIME	3=Med (20-39%) Med		(559) 243-3475	Utility involvement	ACCEPT	Conduct Permit Search during PA&ED			
									Impact]	Ali Algatami@dot.ca.gov	1					
				Supplementary of the second	The State of the S	Market and the second s	No commence the control of the contr	angga a garagan a daga angga ang	4 =Med	The most than a configuration of the configuration	and the second s	of which, there are prime, we share in the prime and	(Comment of the Comment of the Comme		en en la companya de	and the second of the second o	action continues to the continues of the
6	06-0K810-06	#Active	A.Threat	DESIGN	10/24/11	Water diversion needed	Calloway Canal Bridge not dry	COST	Probability 3=Med (20-39%) Med		Ali Alqatami 5592433475	Wet season, the canal is not dry	MITIGATE	Divert the water during construction			
ept and	Notes that the state of the sta							and the second s	Impact 4 =Med		Ali Algatami@dot.ca.gov			garanta ayan da ayan d	ti a yanzi da san dani a ya	e de la companya de l	
7									Probablility			-					
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